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TOWN OF ANDOVER

ANNUAL REPORT

OF THE

Receipts and Expenditures



FOR THE FISCAL YEAR ENDING

DECEMBER 31, 1920

ANDOVER, MASS.
THE ANDOVER PRESS
1921

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TOWN OFFICERS 1920

Selectmen and Overseers of the Poor

WALTER S. DONALD, <i>Chairman</i>	Term expires	1923
CHARLES BOWMAN	" "	1921
ANDREW McTERNEN, <i>Secretary</i>	" "	1922

Assessors

WALTER S. DONALD, <i>Chairman</i>	Term expires	1923
CHARLES BOWMAN	" "	1921
ANDREW McTERNEN, <i>Secretary</i>	" "	1922

Town Clerk

GEORGE A. HIGGINS

Tax Collector

WILLIAM B. CHEEVER

Town Treasurer

GEORGE A. HIGGINS

School Committee

EVERETT C. HILTON	Term expires	1921
MARY W. FRENCH	" "	1921
DAVID R. LAWSON	" "	1921
MARY B. SMITH	" "	1922
ROY H. BRADFORD	" "	1922
RALPH W. COLEMAN	" "	1922
ALFRED E. STEARNS	" "	1923
FREDERICK E. CHEEVER	" "	1923
EDWARD C. CONROY	" "	1923

Superintendent of Schools

HENRY C. SANBORN

Board of Public Works and Sinking Fund Commission

PHILIP L. HARDY	Term expires	1921
WILLIAM D. McINTYRE	" "	1921
ARTHUR T. BOUTWELL	" "	1922
BARNETT ROGERS	" "	1922
THOMAS E. RHODES	" "	1923

Superintendent of Water, Sewer Department, Highways and Parks
FRANK L. COLE

Engineers of Fire Department

CHARLES F. EMERSON, *Chief*

LLEWELLYN D. POMEROY, *Clerk*

HARRY E. WELLS

Board of Health

FRANKLIN H. STACEY	Term expires	1921
CHARLES E. ABBOTT, M. D.	" "	1922
BANCROFT T. HAYNES	" "	1923

Chief of Police

FRANK M. SMITH

Constables

GEORGE W. MEARS	Term expires	1921
FRANK M. SMITH	" "	1921
THOMAS F. DAILEY	" "	1921

Trustees of Memorial Hall Library

NATHAN C. HAMBLIN	Term expires	1921
GEORGE F. SMITH	" "	1922
ALFRED E. STEARNS	" "	1923
BURTON S. FLAGG	" "	1924
E. KENDALL JENKINS	" "	1925
REV. FREDERICK A. WILSON	" "	1926
FREDERIC S. BOUTWELL	" "	1927

Trustees of Punchard Free School — Terms expire 1922

FREDERIC S. BOUTWELL MYRON E. GUTTERSON
HARRY H. NOYES

Auditors

JOHN S. ROBERTSON WALTER H. COLEMAN
HARRY SELLARS

Trustees of Cornell Fund

DR. WILLIAM D. WALKER	Term expires	1921
CHARLES N. MARLAND	" "	1922
JOHN C. ANGUS	" "	1923

Superintendent of Moth Department

EDWARD H. BERRY

Tree Warden

EDWARD H. BERRY

Moderator of Town Meetings

ALFRED L. RIPLEY

Registrars of Voters

CHARLES W. CLARK	JOHN F. HURLEY
PATRICK J. SCOTT	GEORGE A. HIGGINS, <i>Clerk</i>

Trustees of Spring Grove Cemetery

WALTER I. MORSE	DANIEL H. POOR
GEORGE D. MILLETT	WARREN L. JOHNSON
FRED E. CHEEVER	DAVID R. LAWSON
JOHN W. STARK	

Street Lighting Committee

WALTER H. COLEMAN	HENRY J. GARDNER
FREDERIC G. MOORE	JOSEPH L. BURNS
FRED G. CHENEY	

Finance Committee

HENRY A. BODWELL, <i>Chairman</i>	GEORGE ABBOT
EDWARD V. FRENCH, <i>Secretary</i>	GEORGE B. FROST
CHESTER W. HOLLAND	J. HARRY CAMPION
WILLIAM B. CORLISS	

TOWN WARRANT

THE COMMONWEALTH OF MASSACHUSETTS

ESSEX, ss.: To either of the Constables of the Town of Andover,
GREETING.

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in town affairs to meet and assemble at the Town House, in said Andover, on MONDAY, the FIRST DAY OF MARCH, 1920, at 6 o'clock a.m., to act on the following articles: —

Article 1. — To choose a Moderator for one year, Town Clerk for one year, Treasurer for one year, Collector of Taxes for one year, one member of the Board of Selectmen for three years, one member of the Board of Assessors for three years, one member of the Board of Assessors for two years (to fill vacancy), three members of the School Committee for three years, one member of the Board of Public Works for three years, one member of the Board of Public Works for two years (to fill vacancy), one member of the Board of Public Works for one year (to fill vacancy), one member of the Board of Health for three years, three Auditors of Accounts for one year, three Constables for one year, one Trustee of Memorial Hall Library for seven years, one Trustee of Memorial Hall Library for two years (to fill vacancy), one Trustee of Punchard Free School for two years (to fill vacancy), one Tree Warden for one year, one Trustee of Cornell Fund for three years and any other officers the town may determine to choose.

Article 2. — To take action on the following question, Shall licenses be granted for the sale of intoxicating liquors in this town?

Article 3. — To determine what sums of money shall be appropriated for Almshouse Expenses, Repairs on Almshouse, Relief out of Almshouse, Aiding Mothers with Dependent Children, Board of Health, Brush Fires, Fire Department, Hay Scales, Highway Department, Insurance, Interest, Memorial Hall Library, Memorial Day, Post 99, G. A. R., Miscellaneous, Parks and Playsteads, Police, Printing and Stationery, Public Dump, Retirement of Veterans, Redemption of Water, Sewer, High School and Andover Loan Act Bonds, Schools, Sewer Maintenance, Sewer Sinking Funds, Soldiers' Relief, Spring Grove Cemetery, State Aid, Street Lighting, Town Officers, Town House, Tree Warden, Moth Department, Water Maintenance Construction and Sinking Funds, and other town charges and expenses.

Article 4. — To see if the town will appropriate a sum not exceeding \$5000.00, to continue the macadam on Lowell Street; the same to equal an amount which the State and County will severally appropriate, on petition of the Board of Public Works.

Article 5. — To see if the town will appropriate the sum of four thousand dollars (\$4000.00) to complete the work of reconstruction on Wolcott Avenue which was started in 1919, on petition of John F. O'Connell and others.

Article 6. — To hear and act on the report of the committee appointed to consider an Andover Memorial to those engaged in the World War.

Article 7. — To hear and act on the report of the committee appointed to consider the sale of the Andover Town Farm, or change in method of operating the same.

Article 8 — To see if the town will accept and maintain thirty-four (34) street light standards and lights in Shawsheen Village as per plans submitted to Lighting Committee and appropriate a sum of money therefor, on petition of William M. Wood and others.

Article 9. — To see if the town will accept as a gift from William M. Wood, a granite drinking-fountain to be located in Shawsheen Village, to take the place of the iron fountain now located there, on petition of William M. Wood and others.

Article 10. — To see if the town favors the granting, by the Selectmen, of a Sunday License for Moving Pictures, on petition of Samuel Resnik and others.

Article 11. — To see if the town will instruct and authorize the Board of Public Works to arrange and supervise the collection of ashes from houses of residents of the town, on petition of David R. Lawson and others.

Article 12. — To fix the pay of the firemen for the ensuing year

Article 13. — To determine the method of collecting the taxes for the ensuing year.

Article 14. — To authorize the Town Treasurer to hire money for the use of the town in anticipation of the revenue of the current financial year, with the approval of the Selectmen.

Article 15. — To determine what disposition shall be made of unexpended appropriations.

Article 16. — To act upon the report of the Town Officers.

Article 17. — To determine the amount of money to be raised by taxation the ensuing year.

Article 18. — To transact any other business that may legally come before the meeting.

The polls will be open at 6 o'clock a.m., and may be closed at 2 o'clock p.m.

And you are directed to serve this warrant by posting attested copies and publication thereof, seven days at least before the time of said meeting as directed by the By-Laws of the town.

Hereof fail not and make return of this warrant with your doings thereon, at the time and place of said meeting.

Given under our hands this eighteenth day of February, A. D. 1920.

ANDREW McTERNEN

CHARLES BOWMAN

Selectmen of Andover

ANDOVER, MARCH 1, 1920

ESSEX, SS.

Pursuant to the foregoing warrant, I, the subscriber, one of the Constables of the Town of Andover, have notified the inhabitants of said town to meet at the time and place and for the purposes stated in said warrant by posting a true and attested copy of the same on the Town House, on each schoolhouse and in no less than five other public places, where bills and notices are usually posted, and by publication in the Andover Townsman. Said warrants have been posted and published seven days.

FRANK M. SMITH

Constable

ANNUAL TOWN MEETING, MARCH 1, 1920

At a legal meeting of the inhabitants of the Town of Andover qualified to vote in town affairs convened in the Town House in said Andover on Monday the first day of March, 1920, at six o'clock in the forenoon, agreeably to the requirements of the foregoing Warrant, Moderator Alfred L. Ripley presided and after reading a part of the Warrant, it was

Voted, To dispense with the further reading of the Warrant.

Voted, To take up Articles 1 and 2 together.

Voted, That the polls be closed at 2 o'clock p.m.

Took up Articles 1 and 2 and proceeded to vote for Town Officers and on the Liquor License question by the Australian Ballot System.

The ballot box was found to be empty and registered 0000. The polls opened at 6 o'clock a.m., and closed at 2 o'clock p.m. as voted. The total number of ballots cast was 1209, forty-two (42) of which were female ballots for School Committee only.

The result of the balloting was as follows: —

MODERATOR — One year:

Alfred L. Ripley	922
Blanks	245

TOWN CLERK — One year:

George A. Higgins	929
Blanks	238

TOWN TREASURER — One year:

George A. Higgins	895
Blanks	272

SELECTMEN — Three years:

George A. Christie	366
William C. Crowley	323
Walter S. Donald	458
Blanks	20

ASSESSOR — Three years:

George A. Christie	370
William C. Crowley	317
Walter S. Donald	439
Blanks	41

ASSESSOR — Two years (to fill vacancy):

Andrew McTernan	854
David S. Burns	1
Joseph B. Scott	1
Blanks	311

COLLECTOR OF TAXES — One year:

William B. Cheever	919
Blanks	248

SCHOOL COMMITTEE — Three years:

Fred E. Cheever	615
Edward C. Conroy	621
Ella S. Morrill	536
Alfred E. Stearns	750
Walter H. Thompson	415
Blanks	690

TRUSTEE PUNCHARD FREE SCHOOL — Two years (to fill vacancy):

Frederic S. Boutwell	886
Blanks	281

BOARD OF PUBLIC WORKS AND SINKING FUND COMMISSION —
Three years:

Thomas E. Rhodes	814
Blanks	353

BOARD OF PUBLIC WORKS AND SINKING FUND COMMISSION —

Two years (to fill vacancy):

Arthur T. Boutwell	872
Blanks	295

BOARD OF PUBLIC WORKS AND SINKING FUND COMMISSION —

One year (to fill vacancy):

William D. McIntyre	766
Blanks	401

BOARD OF HEALTH — Three years:

Bancroft T. Haynes	810
Blanks	357

AUDITORS OF ACCOUNTS — One year:

Walter H. Coleman	820
John S. Robertson	863
Harry Sellars	835
Blanks	983

CONSTABLES — One year:

Thomas F. Dailey	804
George W. Mears	792
Frank M. Smith	835
Blanks	1070

TRUSTEE OF MEMORIAL HALL LIBRARY — Seven years:

Frederic S. Boutwell	859
Blanks	308

TRUSTEE OF MEMORIAL HALL LIBRARY — Two years (to fill vacancy):

Charles U. Bell	865
Blanks	302

TREE WARDEN — One year:

Edward H. Berry	860
Blanks	307

Shall Licenses be granted for the sale of Intoxicating Liquors in this town?

Yes	548
No	486
Blanks	133

All the foregoing officers and questions were voted on by ballot and the check lists were used.

REPORT OF THE PRECINCT CLERK

ANDOVER, MASS., March 1, 1920

Polls opened at 6 a.m. Voted to close polls at 2 p.m. Ballot box registered 0000. Ballot box registered when polls closed 1208. Number of male ballots received 1850. Number of female ballots received 200. Number of male voters voting 1167. Number of female voters voting 42. Number of votes cast 1209. Number of male ballots returned 683. Number of female ballots returned 158.

DANIEL A. COLLINS, *Clerk*

The Moderator declared:

Alfred L. Ripley elected Moderator for one year.

George A. Higgins elected Town Clerk for one year.

George A. Higgins elected Town Treasurer for one year.

Walter S. Donald elected Selectman for three years.

Walter S. Donald elected Assessor for three years.

Andrew McTernan elected Assessor for two years.

William B. Cheever elected Collector of Taxes for one year.

Fred E. Cheever elected School Committee for three years.

Edward C. Conroy elected School Committee for three years.

Alfred E. Stearns elected School Committee for three years.

Frederic S. Boutwell elected Trustee Punchard Free School for two years.

Thomas E. Rhodes elected Board of Public Works and Sinking Fund Commission for three years.

Arthur T. Boutwell elected Board of Public Works and Sinking Fund Commission for two years.

William D. McIntyre elected Board of Public Works and Sinking Fund Commission for one year.

Bancroft T. Haynes elected Board of Health for three years.

Walter H. Coleman elected Auditor of Accounts for one year.

John S. Robertson elected Auditor of Accounts for one year.

Harry Sellars elected Auditor of Accounts for one year.

Thomas F. Dailey elected Constable for one year.

George W. Mears elected Constable for one year.

Frank M. Smith elected Constable for one year.

Frederic S. Boutwell elected Trustee of Memorial Hall Library for seven years.

Charles U. Bell elected Trustee of Memorial Hall Library for two years.

Edward H. Berry elected Tree Warden for one year.

Chose Trustee of Cornell Fund for three years:— John C. Angus.

Chose Street Lighting Committee for one year (appointed by Moderator): Walter H. Coleman, Fred G. Cheney, Henry J. Gardner, Joseph L. Burns, Frederic G. Moore.

Chose Finance Committee for one year (appointed by Moderator): George Abbot, Henry A. Bodwell, John H. Campion, William B. Corliss, Edward V. French, George B. Frost, Chester W. Holland.

Upon opening the business meeting, the Moderator, Mr. Ripley, spoke as follows relative to the chair left vacant by the death of Selectman Eames:

“Fellow Townsmen: — None of us can gather here to-day without a conscious sense of loss and a strange feeling of bewilderment. The loss is both personal and civic; a sterling man, of uprightness and sagacity, is gone from our midst. His thought and effort on behalf of the town were ceaseless and unstinted; he gave his best and his best was always good. He was of a type on which we like to pride ourselves as native and belonging to New England soil and traditions; simple, clear, painstaking and unselfish. There was none of the modern advertising manner in his work or character; nothing betrayed either self-consciousness or self-seeking. We can ill spare him; we need more like him. If this meeting sees fit to commemorate in its record the public service of the late Harry M. Eames, it seems to me the fitting moment.”

Upon motion of Hon. John N. Cole, the following resolution was adopted by a rising vote: —

“Whereas the Divine Ruler has in his wisdom called from earthly service one to whom had been entrusted large responsibilities in the affairs of Andover, the citizens of the town assembled in Annual Meeting desire to unite in expressing their appreciation of the high character and the long and honorable public service of the late Harry Millett Eames.

“Under the guidance of Mr. Eames as Selectman for thirteen years, the finances of the town have been skillfully directed, and the agencies for carrying on local government have been chosen with care and superior judgment. As a Representative in the General Court he ever exemplified by word and vote the purpose of his town and the desires of his constituency to promote the best ideals of Massachusetts.

“As a citizen he was a true friend, a kindly neighbor, and an unfailing exemplar of the sort of sturdy New England manhood that for three centuries has been molding the destinies of the United States.

“*Resolved* — That the Town of Andover has suffered a serious loss by the death of one who, through a broad love for his town, through a high conception of the purpose of public service, through a deep loyalty to public duty, had lifted office-holding to a high standard and made public service a contributor to a better community.

“*Resolved* — That the sympathy of this gathering be extended to the widow of Mr. Eames and his near relatives, and that a copy of this minute be spread upon the town records.”

Voted — To appropriate the following stated sums of money:—

Almshouse Expenses	\$ 4500.00
Almshouse Repairs	300.00
Relief out of Almshouse	4000.00
Aiding Mothers with Dependent Children	3000.00
Board of Health	3000.00
Brush Fires	600.00
Fire Department	18000.00
Hay Scales	125.00
Highway Department	
Maintenance	30000.00
New Construction	30000.00
Insurance (fire)	2000.00
Insurance (Workmen's Compensation)	2200.00
Interest	15000.00
Memorial Hall Library	3000.00
Memorial Day	450.00
Post 99, G. A. R.	100.00
Miscellaneous	3000.00

Amount carried forward

\$119275.00

<i>Amount brought forward</i>	\$119275.00
Parks and Playsteads	1200.00
Police	7800.00
Printing and Stationery	3000.00
(\$1400 for Printing Report of Real Estate Valuations)	
Public Dump	75.00
Retirement of Veterans, Acts of 1912	300.00
Redemption of Water Bonds	\$8000.00
Redemption of Punchard School Bonds	6000.00
Redemption of Andover Loan Act Bonds	5000.00
Redemption of Sewer Bonds	5000.00
	<hr/> 24000.00
Schools	92000.00
Sewer Department Maintenance	2500.00
Sewer Department Sinking Fund	1000.00
Soldiers' Relief	1200.00
Spring Grove Cemetery (to include receipts)	2500.00
State Aid	1500.00
Street Lighting	6700.00
Town Officers	8815.00
Town House	3000.00
Tree Warden, Gypsy and Browntail Moth Dept.	4250.00
Water Department	
Maintenance	17000.00
Construction	2000.00
Sinking Fund	750.00

In connection with the Water Department appropriations it was voted — That the Board of Public Works be instructed to investigate the whole status of the Water Department, covering the question of rates, the charges for fire service and other public services and the advisability of having the Water Department operated as a self-supporting department and to report its conclusions and recommendations at the next Annual Town Meeting or at a Special Town Meeting.

<i>Amount carried forward</i>	<hr/> \$289865.00
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<i>Amount brought forward</i>	\$298865.00
Lowell Street, (Article 4)	\$5000.00
Wolcott Avenue, (Article 5)	1500.00
	<hr/>
	\$305365.00
State Tax and Highway Tax (estimate)	28000.00
County Tax (estimate)	15000.00
	<hr/>
	\$348365.00

Took up Article 4.

Voted, at 3.30 p.m., To appropriate a sum not exceeding \$5000.00, to continue the macadam on Lowell Street; the same to equal an amount which the State and County will severally appropriate.

Took up Article 5.

Voted, at 3.50 p.m., To appropriate the sum of \$1500.00 to continue the work of reconstruction on Wolcott Avenue which was started in 1919.

Took up Article 6.

Voted, at 4.24 p.m., That the Committee on War Memorial be continued for the purpose of formulating a program to carry into effect as much of the recommendation submitted at this meeting by report and plans of its committee as it believes can be financed through taxation, supplemented by private subscription. That for the purpose of learning what private subscriptions might be available, said committee be authorized to increase its members and arrange an organization for canvassing the town. That the committee report its recommendations to the town, but that the committee have no authority to bind the town to any expenditure from taxation or otherwise unless and until authorized so to do by the town at a future town meeting.

Took up Article 7.

Voted, at 4.25 p.m., That the committee appointed to consider the sale of the Andover Town Farm, or change in method of operating the same, be continued.

Took up Article 8.

Voted, at 4.26 p.m. to lay on the table.

Took up Article 9.

Voted, at 4.32 p.m., That the town accept with pleasure and satisfaction as a gift from William M. Wood, a granite drinking fountain to be located in Shawsheen Village, to take the place of the iron fountain now located there, subject to the approval of the Board of Public Works.

Voted, at 4.34 p.m., To reconsider Article 8 and voted at 4.40 p.m. to refer to the Lighting Committee with the understanding that the committee be co-operative with the petitioner in consideration of the matter.

Took up Article 10.

Voted, at 5.06 p.m., That it is the sense of this meeting that Sunday License for Moving Pictures be not granted.

Took up Article 11.

Voted, at 5.08 p.m., Not to instruct and authorize the Board of Public Works to arrange and supervise the collection of ashes from houses of residents of the town.

Took up Article 12.

Voted, at 5.09 p.m., That the pay of the firemen be the same as last year, viz.: \$150 per year.

Took up Article 13.

Voted, at 5.10 p.m., That the taxes be collected by the Tax Collector, that he receive a salary of \$1800.00 per year, and

that interest be charged at the rate of six per cent per annum from October 15 on all taxes remaining unpaid after November 1.

Took up Article 14.

Voted, at 5.12 p.m., That the Town Treasurer, with the approval of the Selectmen, be and hereby is authorized to borrow money from time to time in anticipation of the revenue of the financial year beginning January 1, 1920, and to issue a note or notes therefor, payable within one year, any debt or debts incurred under this vote to be paid from the revenue of said financial year.

Took up Article 15.

Voted, at 5.13 p.m., That all unexpended appropriations be turned into the Treasury.

Took up Article 16.

Voted, at 5.14 p.m., That the report of the Town Officers be accepted.

Took up Article 17.

Voted, at 5.15 p.m., To raise by taxation \$214,000.00 and also an amount sufficient to meet the State and County Taxes after deducting receipts from the State Income Tax.

Took up Article 18.

Voted, at 5.25 p.m., That the Moderator appoint a committee of seven, two of whom shall be officers of the town, one a member of the Board of Selectmen, another a member of the Board of Public Works, with instructions to attend the hearing before the Committee on Roads and Bridges on March 9th, and to request that Bill 845 be withdrawn, unless it is so amended as to provide for a referendum of its legislation to the voters of Andover at a regular or special town meeting, for approval and ratification. The Moderator appointed, The Chairman of the Board of Se-

lectmen, the Chairman of the Board of Public Works, E. V. French, Judge Charles U. Bell, Henry A. Bodwell, John C. Angus, E. Barton Chapin.

Voted, at 5.28 p.m., That the Selectmen be instructed to confer with Eastern Massachusetts Street Railway Officials in regard to better car service for Andover.

Voted, at 5.30 p.m., That the meeting be dissolved.

The foregoing is a true copy of the Warrant and of the Officers' return on the same, also a true record of the doings of the meeting.

Attest:

GEORGE A. HIGGINS, *Town Clerk*

SPECIAL TOWN MEETING JULY 20, 1920, WARRANT

THE COMMONWEALTH OF MASSACHUSETTS

ESSEX, ss.: To either of the Constables of the Town of Andover,
GREETING.

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in town affairs, to meet and assemble at the Town House, in said Andover, on TUESDAY, the TWENTIETH DAY OF JULY, 1920, at 7.30 o'clock p.m., to act on the following articles:

✓Article 1. — To see if the Town will accept the provisions of Chapter 475 of the Acts of 1920 in relation to the construction of a new bridge on Haverhill Street over the Shawsheen River under the direction of the County Commissioners.

✓Article 2. — To see if the town will appropriate the sum of \$12,500 to meet its part of the cost of said new bridge over the Shawsheen River and authorize the Treasurer, with the approval of the Selectmen, to borrow said sum by the issuance of bonds or notes of the Town in accordance with the provisions of Chapter 475 of the Acts of 1920.

✓Article 3. — To see if the Town will appropriate the sum of forty thousand dollars (\$40,000) for the purpose of extending the sewerage system from its present terminus near Stimpson Bridge to Haverhill Street in Shawsheen Village, so called, and authorize the Treasurer, with the approval of the Selectmen, to borrow the same by issuing bonds or notes of the Town, on petition of the Board of Public Works.

Article 4. — To see if the Town will appropriate four hundred dollars (\$400) for the improvement of street lighting in Shawsheen

Village, so called, upon petition and recommendation of the Street Lighting Committee.

Article 5. — To see if the Town will vote to install two new boilers in the Town House to replace the present boilers which have been condemned by the Hartford Boiler Insurance Company and appropriate a sum of money therefor, on petition of the Board of Selectmen.

Article 6. — To see if the Town of Andover will appropriate the sum of two thousand dollars (\$2,000) to the American Legion Post No. 8, for the preparation and publication under its auspices of the history of the military and civilian activities of the Town during The Great War, on petition of Andover Post No. 8 of the American Legion.

Article 7. — To transact any other business that may legally come before the meeting.

And you are directed to serve this warrant by posting attested copies and publication thereof seven days before the time of said meeting as directed by the By-Laws of the town.

Hereof fail not and make return of this warrant with your doings thereon at the time and place of said meeting.

Given under our hands this eighth day of July, A. D. 1920.

WALTER S. DONALD
CHARLES BOWMAN
ANDREW McTERNEN

Selectmen of Andover

ANDOVER, JULY 20, 1920

ESSEX, SS.

Pursuant to the foregoing warrant, I, the subscriber, one of the Constables of the Town of Andover, have notified the inhabitants of said town to meet at the time and place and for the purposes stated in said warrant, by posting a true and attested copy

of the same on the Town House, on each schoolhouse and in no less than five other public places, where bills and notices are usually posted, and by publication in the Andover Townsman. Said warrants have been posted and published seven days.

FRANK M. SMITH

Constable

At a legal meeting of the inhabitants of the Town of Andover qualified to vote in town affairs convened in the Town House in said Andover on Tuesday, the twentieth day of July, 1920, at 7.30 o'clock in the evening, agreeably to the requirements of the foregoing warrant, Moderator Alfred L. Ripley presided and read the warrant.

Took up Article 1.

✓ *Voted*, at 7.53 p.m., To accept the provisions of Chapter 475 of the Acts of 1920 in relation to the construction of a new bridge on Haverhill Street over the Shawsheen River under the direction of the County Commissioners. The vote was unanimous.

Took up Article 2.

✓ *Voted*, at 7.55 p.m., That by virtue and in pursuance of the provisions of Chapter 475 of the Acts of 1920 and for the purposes mentioned therein, viz.: of meeting its part of the cost of a new bridge over the Shawsheen River, the Town Treasurer is hereby authorized to issue bonds or notes of the Town in the aggregate principal amount of \$12,500, the date of said bonds or notes to be determined by the Town Treasurer, with the approval of the Selectmen, and payable in annual payments of \$2500, so that said loan will be extinguished within five years from its date, bearing interest, payable semi-annually, at a current rate to be determined by the Town Treasurer, with the approval of the Selectmen.

Said bonds or notes shall be denominated on the face thereof "Shawsheen Bridge Loan, Act of 1920," shall be signed by the

Treasurer and countersigned by a majority of the Selectmen and be under the seal of the Town and bear the statement that they are free from taxation in Massachusetts. Principal and interest of said bonds or notes shall be payable in lawful money of the United States at such bank or trust company as the Treasurer, with the approval of the Selectmen, shall elect. Said bonds or notes may be sold by said Treasurer at public or private sale at not less than their par value, and shall be certified by a bank or trust company to be selected by the treasurer, with the approval of the Selectmen, and contain such statements not inconsistent with this note as the Town Treasurer, with the approval of the Selectmen, may determine. The vote was unanimous.

Took up Article 3.

✓ *Voted*, at 8.52 p.m., That that portion of a sewerage system shown on plan of John Franklin, dated June 1920, on the west side of the Shawsheen River between Stimpson's Bridge and Haverhill Street in Shawsheen Village (so called) be adopted as a part of the sewerage system of the Town of Andover and that the town appropriate the sum of forty thousand (\$40,000) dollars for the purpose of said extension. That the Town Treasurer, with the approval of the Selectmen, be and hereby is authorized to borrow said sum and to issue therefor bonds or notes of the Town bearing interest at a rate, to be determined by said Treasurer with the approval of the Selectmen, payable semi-annually April 1st and October 1st, said bonds or notes to be signed by the Treasurer of the Town, and countersigned by a majority of the Selectmen and Board of Public Works, and to be under the seal of the town. They shall bear upon their face the words "Andover Sewerage Loan of 1920" and the statement that they are exempt from taxation in Massachusetts. They shall be dated October 1st, 1920, shall be issued in numbered series and shall be payable in accordance with the provisions of Section 8, Chapter 286 of the Acts of 1895, so that the whole loan shall be paid in not more than thirty years from the date of the first bond or note issued or at such earlier periods as the Treasurer and Selectmen may determine.

Principal and interest of said bonds or notes shall be payable in lawful money of the United States at such bank or trust company as the Treasurer, with the approval of the Selectmen, shall elect. Said securities may be sold by said treasurer at public or private sale or pledged at not less than their par value for money borrowed for the purposes of this act. Said bonds or notes shall be certified by a bank or trust company to be selected by the treasurer, with the approval of the Selectmen.

That by virtue of Section 10, Chapter 386 of the Acts of 1895, the Board of Public Works be and hereby is authorized to supervise the construction of said extension, to bind the town by contract therefor, to take on behalf of the town by purchase or otherwise any lands, water rights, rights of way or easements in Andover deemed necessary for the establishment of such an extension of the sewerage system and system of sewerage disposal and for connection herewith, and to do any and all other things reasonably necessary or expedient to accomplish the purposes of this act in conformity to the law in such case made and provided. The vote stood affirmative 110, negative 4.

Took up Article 4.

✓ *Voted*, at 8.56 p.m., To appropriate four hundred dollars (\$400) for the improvement of street lighting in Shawsheen Village, so called.

Took up Article 5.

Voted, at 8.57 p.m., To install two new boilers in the Town House to replace the present boilers which have been condemned by the Hartford Boiler Insurance Company and appropriate \$2500 therefor.

Took up Article 6.

Voted, at 9.10 p.m., That the town appropriate the sum of \$3000.00 to be paid from the taxes of the present year for the preparation and publication of a history of the military and

civilian activities of the town during the World War, this work to be carried on under the auspices of Andover Post, Number 8, American Legion.

Took up Article 7.

Voted, at 9.15 p.m., That the meeting be dissolved.

The foregoing is a true copy of the warrant and of the Officers' return on the same, also a true record of the doings of the meeting.

Attest:

GEORGE A. HIGGINS, *Town Clerk*

SELECTMEN'S REPORT

SCHOOLS

Appropriation, March 1, 1920	\$92000.00
Receipts	584.49

\$92584.49

Henry C. Sanborn, Superintendent	\$ 3485.85
Emily Walker, Clerk	680.00
Teachers' payroll	55529.26
Janitors' payroll	6328.79
Matron	281.84
Milton Bradley Co., supplies	191.16
Rockport Market, provisions	10.01
Alvah Wright, transportation	740.00
Charles H. Newton, trans. and supplies	623.20
J. H. Campion & Co., supplies	128.58
Joseph Chambers, transportation	150.00
Eastern Mass. St. Railway, transportation	1718.11
J. L. Hammett Co., supplies	330.31
E. T. Hethrington, supplies	43.66
W. J. Morrissey, conveyance	563.00
Boston and Lawrence Despatch	7.45
Edith Moreton, expenses	9.30
Walter W. Coburn, supplies	6.00
F. J. Barnard Co., supplies	90.20
Oliver Ditson Co., supplies	38.08
Lawrence Gas Co.	299.09
The Macmillan Co., supplies	167.99
Standard Oil Co., supplies	49.15

<i>Amount carried forward</i>	\$71471.03
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Appropriation and Receipts	\$92584.49
<i>Amount brought forward</i>	\$71471.03
Boston and Maine Railroad, transportation	1030.38
Thomas Dea, expenses	5.00
Lyons and Carnahan, supplies	51.83
Walter I. Morse, supplies	133.41
New England Tel. & Tel. Co.	88.57
D. C. Heath & Co., supplies	132.76
Ginn & Co., supplies	451.72
William L. Frye, truant officer	106.20
Betridge Tucker, expenses	5.60
S. T. Shattuck & Sons, team hire	76.00
The Office Appliance Co., supplies	17.08
Edward S. Hardy, wood	111.00
W. A. Allen, supplies	1.25
Royal Typewriter Co., supplies	489.50
Arthur W. Scribner, supplies	11.20
Tyer Rubber Co., supplies	3.75
Overmeadow Farm, supplies	16.95
Kee Lox Mnfg. Co., supplies	10.50
American Railway Express Co.	23.86
Peoples' Ice Co., ice	8.50
Andover Coal Co., coal	2458.00
Morse Brackett Box Co., supplies	40.00
C. C. Birchard & Co., supplies	16.91
The Gregg Publishing Co., supplies	38.38
Duplicator Supply Co., supplies	4.00
Merrimac Boiler Works	18.35
The Prang Co., supplies	5.95
Wright Potter Printing Co., supplies	14.42
Lawrence Lumber Co., supplies	638.87
A. W. Shaw Co., supplies	30.70
Edward E. Babb & Co., supplies	1218.50
L. C. Smith & Brothers Co., supplies	13.33
W. H. Sylvester, tuning piano	11.00
J. W. Richardson, labor	569.08
<i>Amount carried forward</i>	\$79323.58

Appropriation and Receipts	\$92584.49
<i>Amount brought forward</i>	\$79323.58
Scientific American Publishing Co., supplies	5.00
S. A. Courtis, supplies	20.54
Silver Burdett & Co., supplies	81.58
Sears Roebuck & Co., supplies	3.98
H. I. Dallman Co., supplies	43.29
Andover Steam Laundry Co.	7.18
J. E. Pitman, labor	22.49
Gray and Kendall, labor	25.00
Goodyear-Marshall Pub. Co., supplies	10.63
The Andover Press, printing and supplies	446.05
City of Lawrence, tuition	223.11
E. E. Gray & Co., supplies	9.35
Educational Specialties Inc., supplies	50.42
Hiller & Co., supplies	34.53
Little Brown & Co., supplies	79.28
West Disinfecting Co., supplies	81.00
Henry C. Sanborn, expenses	137.51
City of Lowell, tuition	41.25
Henry Holt & Co., supplies	39.21
Underwood Typewriter Co., supplies	17.41
World Book Co., supplies	298.37
Diamond Spring Water Co., supplies	10.50
Thiras Brothers, supplies	2.30
Bernard L. McDonald Co., coal	7238.86
American Book Co., supplies	164.57
Bureau of Publications, supplies	2.00
Literary Digest	4.00
F. H. Stacey, supplies	26.38
D. Donovan & Son, labor	8.15
Donovan and Locke, labor	235.15
Henry E. Lavery, tuition	10.00
Edward Dodge, labor	20.00
Benj. H. Sanborn & Co., supplies	112.77
Frank E. Dodge, labor	196.15
<i>Amount carried forward</i>	\$89031.59

Appropriation and Receipts	\$92584.49
<i>Amount brought forward</i>	\$89031.59
Charles E. Merrill & Co., supplies	105.46
University of Chicago Press	43.88
George W. Horne Co., supplies	409.94
George P. Pillsbury, wood	151.00
Miller Bryant Pierce Co., supplies	18.00
H. Sanford Leach	4.00
Buchan & McNally, labor	884.71
The Family Shoe Store, supplies	6.75
Walter Walker, labor	10.00
Fred Collins, labor	10.00
J. H. Playdon, supplies	25.00
County of Essex, tuition	71.14
A. C. Seiler, supplies	18.23
John R. Lyman Co., supplies	15.35
E. McCabe & Co., supplies	.70
Kenney Brothers and Wolkins, supplies	10.00
Alice S. Coutts, extra work	18.75
Library Bureau, supplies	1.15
Nathan C. Hamblin, expenses	7.79
McGraw Hill Book Co., supplies	17.00
Houghton Mifflin Co., supplies	23.54
Board of Public Works, water	425.23
W. H. Coleman & Co., auto hire	7.40
S. K. Ames, supplies	3.24
Robert McCoubrie, labor	10.00
Sydney P. White, labor	6.00
C. A. Hill & Co., labor and supplies	151.26
H. B. McArdle, supplies	33.00
The Cable Co., supplies	.35
John Ferguson, repairs	14.00
James Eaton, supplies	3.40
Cheshire Chemical Co., supplies	26.00
W. D. Walker, M. D., School physician	220.00
Portia Clough, expenses	7.00
<i>Amount carried forward</i>	<u>\$91790.86</u>

Appropriation and Receipts	\$92584.49
<i>Amount brought forward</i>	\$91790.86
C. S. Buchan, supplies	30.18
Annie C. Crowley, labor	1.35
Mrs. L. A. Morse, eggs	1.20
Foster Music Publishing Co., supplies	7.50
New Method Varnish Co., supplies	15.00
Clara A. Putnam, services as Matron	171.15
Kansas State Normal School, supplies	12.20
L. E. Knott Apparatus Co., supplies	100.32
William Baker, labor	6.00
Walter Baker, labor	6.00
Allyn and Bacon, supplies	110.76
Outlook Co., supplies	4.00
Anderson and Bowman, labor	3.25
George E. Hussey, engraving	1.00
Elizabeth Hurley, tuition	10.00
George Dick, labor	11.00
National Geographic Society, magazine	2.75
Anna Ilgorsky, tuition	10.00
Willis Craik, tuition	10.00
Stewart Fraser, tuition	10.00
Henry Dolan, tuition	10.00
Anna Smith, tuition	10.00
Arthur Swenson, tuition	10.00
John J. Mahoney, tuition	10.00
Daniel McCarthy, tuition	10.00
Mrs. John Hannon, tuition	10.00
Gladys Mears, tuition	10.00
James Sullivan, tuition	10.00
James Cuthill, tuition	10.00
Joseph Carroll, tuition	10.00
Helen Leonard, tuition	10.00
Alice Kayley, tuition	10.00
Annie Vannett, tuition	10.00
Hayward Bros. and Wakefield Co., supplies	17.25
<i>Amount carried forward</i>	\$92460.77

Appropriation and Receipts		\$92584.49
<i>Amount brought forward</i>	\$92460.77	
Hazel Underwood, expenses	1.80	
Teacher's College	6.24	
School Arts Magazine, supplies	3.00	
Gaylord Brothers, supplies	3.48	
George T. Johnson Co., supplies	23.00	
Charles Fettes, labor	7.80	
Standard Electric Time Co.	8.48	
Thomas Hayter, labor	23.40	
James Thompson, labor	23.40	
Dowling School Supply Co., supplies	5.28	
Helen De M. Dunn, expenses	1.80	
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Total expenditure	92569.45	
Balance	15.04	
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	\$92584.49	\$92584.49

TOWN OFFICERS

Appropriation, March 1, 1920		\$8815.00
Harry M. Eames, Chairman Selectmen	\$100.00	
Walter S. Donald, Selectman & Assessor	800.00	
Andrew McTernen, Selectman & Assessor	716.67	
Charles Bowman, Selectman & Assessor	766.67	
George A. Higgins, Town Clerk	1150.00	
George A. Higgins, Town Treasurer	1150.00	
William B. Cheever, Collector of Taxes	1578.80	
Daniel J. Murphy, Town Counsel	375.00	
Precinct Officers, Precinct 1	353.00	
Precinct Officers, Precinct 2	132.00	
Registrars of Voters	206.00	
Walter H. Coleman, Auditor	75.00	
John S. Robertson, Auditor	75.00	
Harry Sellars, Auditor	75.00	
Joseph I. Pitman, Building Inspector	366.66	
Dr. J. J. Daly, Town Physician	200.00	
William C. Crowley, Sealer Weights and Measures	188.94	
Alfred L. Ripley, Moderator	10.00	
Smart & Flagg, bond for Treasurer and Collector	180.00	
Alvah P. Wright, Field Driver	25.00	
Frank P. Higgins, checker	3.00	
Frank Keefe, checker	3.00	
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Total expenditure	8529.74	
Balance	285.26	
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	\$8815.00	<hr/> \$8815.00

TOWN HOUSE

Appropriation, March 1, 1920		\$3000.00
George W. Mears, janitor	\$880.00	
Lawrence Gas Company	371.56	
William Knipe, labor	225.28	
Holden Brothers, labor	208.70	
C. A. Hill and Co. supplies	124.32	
Andover Coal Co., coal	93.58	
The Planet Co., supplies	42.00	
Daniel P. Webster, police duty	35.50	
David M. May, police duty	39.75	
Gray and Kendall, labor	45.31	
C. S. Buchan, supplies	39.01	
James Holt, labor	91.58	
Walter I. Morse, supplies	21.35	
Oliver Whyte Co., Inc., supplies	86.00	
H. I. Dallman Co., supplies	28.26	
J. W. Richardson, labor	18.18	
James W. Walker, police duty	9.00	
Cheshire Chemical Co., supplies	8.00	
Buchan and McNally, supplies	7.22	
Perley F. Gilbert, architect	15.00	
George C. Dunnells, police duty	3.00	
New England Tel. & Tel. Co.	3.50	
John Ferguson, repairing	5.00	
Annie F. Brown, labor	4.92	
W. H. Sylvester, tuning piano	3.00	
William C. Brown, police duty	3.00	
Lord & Co., tuning piano	1.90	
Anderson & Bowman, supplies	2.15	
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Total expenditure	2416.07	
Balance	583.93	
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	\$3000.00	<hr/> \$3000.00

NEW BOILERS

Appropriation, July 20, 1920		\$2500.00
Shear Klean Grate Co., grates	\$ 198.97	
Philip L. Hardy, contract	675.00	
Merrimac Boiler works, boilers	960.00	
Boston & Maine R. R., freight	9.03	
S. T. Shattuck & Sons, labor	2.00	
Buchan and McNally, steam fitting	209.84	
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Total expenditure	2054.84	
Balance	445.16	
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	\$2500.00	<hr/>
		\$2500.00

FIRE DEPARTMENT

Appropriation, March 1, 1920	\$18000.00
Earnings, Town Teams	1499.18
Sale of Materials	76.17
Pay rolls, permanent men	\$10840.00
Payroll, Engine Company No. 1	2552.50
Payroll, Engine Company No. 2	910.00
C. A. Hill, chief engineer	250.00
Fred Adams, engineer	200.00
H. E. Wells, engineer	200.00
H. E. Wells, repairs	5.88
R. M. Haynes, supplies and grain	324.54
American La France Fire Engine Co., supplies	100.77
C. A. Hill & Co., supplies and repairs	148.75
Walter I. Morse, supplies	124.72
Henry A. Prescott, supplies	57.05
Lawrence Gas Company	157.82
New Eng. Tel. & Tel. Co.	50.46
H. Bruckman, grain	68.80
Dillon Machine Co., Inc., supplies	23.65
W. H. Coleman & Co., supplies	54.37
Est. H. M. Eames, hay	118.58
Sinclair Refining Co., supplies	40.47
Ralph L. Greenwood, janitor	100.00
John Haggerty, labor and telephone	252.24
Cross Coal Co., coal	92.05
Andover Steam Laundry Co.	31.09
Ira Buxton, labor	6.25
Benjamin Jaques, supplies	7.50
<i>A mount carried forward</i>	<u>\$16717.49</u>

Appropriation and Receipts

\$19575.35

<i>Amount brought forward</i>	\$16717.49
John Shea, grain	356.75
C. S. Buchan, supplies	25.13
Andover Press, supplies	9.70
Louis Kibbee, labor	2.00
Lester Hilton, labor	2.00
Scott T. Shattuck and Sons, labor	51.00
B. F. Nason, hay	116.66
John A. Collins, labor	12.00
William T. Rea, labor	9.00
Henry Hilton, labor	2.00
A. M. Colby, labor	2.50
Albert Cole, labor	2.00
William Knipe, labor	48.43
Louis Resnik, supplies	8.20
Fellows & Co., Inc., supplies	15.40
Tyer Rubber Co., blowing whistle and supplies	200.18
R. L. Buchan, labor and supplies	598.90
J. E. Pitman, labor and supplies	247.36
John L. Morrison, labor and supplies	229.40
Buchan & McNally, supplies	21.57
Charles F. Emerson, labor	68.00
Ivan Stedman, labor	15.00
O. F. Kress & Son, supplies	8.00
Camire Welding Co., supplies	2.00
Anderson & Bowman, labor supplies	139.75
Dayton Rubber M'fg. Co., supplies	4.82
Boston Woven Hose Co., supplies	543.01
Andover Coal Co., coal	335.61
E. W. Boutwell, hay	95.76
Standard Oil Co., supplies	74.28
Woodhouse M'fg. Co., supplies	15.00
Board of Public Works	21.12
<i>Amount carried forward</i>	\$20000.02

Appropriation and Receipts		\$19575.35
<i>Amount brought forward</i>	\$20000.02	
E. T. Hethrington, supplies	7.79	
The "Whatnot" supplies	7.08	
Andover Battery Service Co., labor	6.00	
Robert Ryan, labor	13.00	
Donovan & Locke, labor	21.07	
James Oldroyd, labor	1.00	
J. F. Coles, expenses	1.90	
J. H. Campion & Co., supplies	2.20	
Hiller & Co., supplies	3.40	
Gray and Kendall, labor	11.79	
White-Hall Garage	.45	
Theo. Muise, labor	5.00	
Archibald Wheel Co., supplies	49.60	
S. M. Spencer M'fg. Co., supplies	12.47	
Benjamin Dane, labor	2.00	
Gamewell Fire Alarm Tel. Co., supplies	7.60	
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Total expenditure	\$20152.37	
Overdrawn		577.02
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	\$20152.37	\$20152.37

BRUSH FIRES

Appropriation, March 1, 1920		\$600.00
L. Hilton, et al.	\$632.00	
Charles Emerson, et al.	16.50	
I. Steadman, et al.	20.50	
George Dunnells, et al.	8.00	
E. Berry, et al.	49.50	
R. Jackson, et al.	4.00	
R. Bruce, et al.	5.00	
A. P. Wright, et al.	6.00	
State Forestry Dept., soda	32.33	
J. W. Stark	1.08	
Louis Resnik	10.80	
Wm. Baker et al.	25.50	
Harry Colbath, et al.	19.50	
Jerry Cronin, et al.	30.00	
Frank Crockett, et al.	22.50	
P. Tucker, et al.	1.50	
A. McKenzie	19.00	
Wm. Brown, et al.	3.50	
Patrick Murnane, et al.	7.00	
Henry Platt, et al.	11.00	
Wm. Ross, et al.	3.00	
F. Coles, et al.	7.50	
J. Collins, et al.	11.00	
C. Davis, et al.	1.50	
R. Baker, et al.	7.00	
F. Adams, et al.	4.50	
Walter I. Morse, supplies	20.70	
Badger Fire Ex. Co., Inc., supplies	11.80	
<i>Amount carried forward</i>	\$992.21	

Appropriation		\$600.00
<i>Amount brought forward</i>	\$992.21	
Boston & Maine railroad	.68	
E. F. Dahill, Jr., & Co., extinguishers	64.00	
B. F. Hatch, et al.	21.50	
Kerr Sparks, et al.	4.50	
H. Miller, et al.	7.00	
Wm. Collins et al.	7.00	
Wm. Lindsay, et al.	3.50	
Overdrawn		500.39
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Total expenditures	\$1100.39	\$1100.39

POLICE DEPARTMENT

Appropriation, March 1, 1920		\$7800.00
Essex County		32.00
Sale of Materials		2.35
Receipts from Special Duty		1038.75
Frank M. Smith, Chief	\$1852.00	
Payrolls	4620.00	
W. J. Morrissey, auto hire	226.00	
Lane Construction Co., police duty	1038.75	
Franklin S. Valentine, duty and killing dogs	105.92	
George C. Dunnells, police duty	97.00	
M. T. Welch, police duty	121.87	
James W. Walker, police duty	98.26	
Hubert H. Mayo, police duty	52.08	
New Eng. Tel. & Tel. Co.	92.61	
Thomas F. Dailey, police duty and kill- ing dogs	76.00	
George Dane, police duty	72.00	
Walter I. Morse, supplies	20.21	
O. P. Chase, supplies	1.50	
C. A. Hill & Co., supplies	4.20	
Gray and Kendall, labor	50.13	
Parker & Co., supplies	15.00	
Treat Hardware Corp., supplies	4.50	
A. M. Colby	14.50	
Charles J. Shorten, police duty	37.75	
The "Whatnot"	6.46	
Buchan & McNally, supplies	9.00	
John Ferguson, repairs	8.40	
<i>Amount carried forward</i>	<u>\$8624.14</u>	

Appropriation and Receipts		\$8873.10
<i>Amount brought forward</i>	\$8624.14	
Daniel P. Webster, police duty	9.00	
White-Hall Garage, supplies	26.00	
Andover Press, supplies	26.44	
Auto List Publishing Co.	18.00	
John Stack, police duty	18.00	
David M. May, police duty	11.40	
Paul Hill	3.00	
S. T. Shattuck & Sons, labor	3.00	
H. F. Chase, supplies	4.00	
C. L. Wilson, labor	2.00	
Frank L. Cole, supplies	4.80	
Dr. W. D. Walker, services	3.00	
Dr. P. J. Look, services	3.00	
Dr. C. W. Scott, services	4.00	
Andover Steam Laundry Co.	.36	
Frank M. Smith, expenses	20.94	
James Napier, expenses	14.79	
Leonard Saunders, expenses	6.30	
Geo. W. Mears, expenses	2.50	
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	\$8804.67	
Balance	68.43	
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	\$8873.10	<hr/>
		\$8873.10

BOARD OF HEALTH

Appropriation, March 1, 1920		\$3000.00
Charles H. Newton, Inspector	\$298.00	
Lakeville State Sanatorium	261.14	
Rutland State Sanatorium	116.00	
Lotta Johnson, Nurse and Clerk	726.00	
F. H. Stacey, Board of Health	50.00	
F. H. Stacey, Milk Inspector	75.00	
F. H. Stacey, fumigating, expenses and supplies	322.56	
B. T. Haynes, Board of Health & fumigating	59.50	
William Knipe, labor	116.75	
Dr. C. E. Abbott, Board of Health	75.00	
Dr. C. E. Abbott, fumigating, etc.	108.50	
Joseph P. Nolan, Plumbing Inspector	246.00	
Ladies' Union Charitable Society, Board	64.29	
Mrs. Frank A. Cook	36.00	
John W. Hall, Jr., quarantine	40.00	
Andover Press, supplies	39.10	
H. E. Wells, quarantine	48.00	
E. F. Mahady Co., supplies	5.00	
Massachusetts Assn. Boards of Health	4.00	
Modern Medicine Magazine	3.00	
John S. Fraize, burying cats	4.00	
Charles A. Hill & Co., supplies	7.48	
R. Diminick	1.00	
John H. McDonald, P. M., supplies	24.10	
Walter I. Morse, supplies	.40	
The "Whatnot," supplies	2.49	
W. H. Welch Co., supplies	1.74	
Total expenditures	\$2735.05	
Balance	264.95	
	\$3000.00	\$3000.00

PRINTING AND STATIONERY

Appropriation, March 1, 1920		\$3000.00
The Andover Press, printing and supplies	\$1280.44	
The Andover Press, printing valuation book	1263.30	
Burroughs Adding Machine Co.	10.40	
John H. McDonald, P. M., supplies	136.46	
Henry M. Meek Pub. Co., printing	7.54	
Hobbs and Warren, printing	13.22	
Wright and Potter Printing Co., supplies	10.50	
George B. Graff Co., supplies	4.00	
Munson Supply Co., Munson keys	4.00	
Paragon Binder Corp., supplies	10.97	
H. M. Meserve and Co., supplies	17.65	
Ever Ready Mfg. Co., supplies	9.68	
A. W. Brownell Corp., supplies	15.50	
P. B. Murphy, printing	3.50	
Joseph C. Terry, printing	2.80	
Carter's Ink Co., supplies	5.75	
Board of Assessors, valuation book expenses	200.00	
	<hr/>	
Total expenditures	2995.71	
Balance	4.29	
	<hr/>	
	\$3000.00	<hr/> \$3000.00

GYPSY AND BROWNTAIL MOTH DEPARTMENT

Appropriation, March 1, 1920		\$4250.00
Sale of supplies and private work		4599.86
Payrolls	\$4659.68	
State Forester's Dept.	.90	
Samuel Cabot, Inc., supplies	33.12	
S. T. Shattuck & Sons, labor	130.88	
Boston and Maine Railroad	1.10	
Walter I. Morse, supplies	40.82	
John L. Morrison, storing and labor	128.65	
Edward H. Berry, sundry expenses	48.53	
W. J. Morrissey	40.00	
W. H. Coleman & Co.	192.43	
B. A. Wheeler, labor	5.50	
Buchan and McNally, supplies	8.80	
Boston Coupling Co., supplies	5.25	
C. S. Buchan, supplies	12.00	
Freeman R. Abbott, labor	416.89	
Fred White	12.00	
The Glidden Co., supplies	1398.98	
Tree Warden:		
Payrolls	1086.75	
S. T. Shattuck & Sons, labor	12.50	
Gray and Kendall, labor	9.30	
The Andover Press, supplies	2.70	
Frank W. Spinney, trees	84.00	
L. A. Belisle, labor	10.00	
Walter I. Morse, supplies	20.05	
Total expenditure	8360.83	
Balance	489.03	8849.86
	<hr/>	
	\$8849.86	\$8849.86

SPRING GROVE CEMETERY

Appropriation March 1, 1920		\$2500.00	
Sale of lots		1142.50	
Perpetual care		365.00	
Care of lots		442.50	
Interments and use of tomb		529.00	
Foundations		391.76	
Sundries		209.75	
Interest		18.89	
Pay rolls	\$4608.80		
American Vault Works, supplies and markers	196.74		
Elmer F. Conkey, labor and supplies	213.50		
Edith P. Sellars, clerk	100.00		
Mrs. H. M. Eames	72.00		
Walter I. Morse, supplies	61.70		
Board of Public Works, water	61.36		
Reade Manufacturing Co., supplies	57.50		
Buchan and McNally, supplies	41.84		
J. H. Playdon, plants	40.65		
Bellevue Monumental Works, supplies	28.00		
William Lord, re-purchase of lot	25.00		
Frank E. Dodge, labor	17.40		
The Andover Press, printing and supplies	14.70		
Anderson and Bowman, labor and supplies	11.40		
George Seymour, supplies	7.70		
George D. Ward, supplies	6.75		
Warren L. Johnson, supplies	4.80		
Boston and Maine Railroad	2.81		
C. S. Buchan, supplies	1.99		
		<hr/>	
Total Expenditures	\$5574.64		
Balance	24.76		
		<hr/>	
	\$5599.40	<hr/>	\$5599.40

INSURANCE

Appropriation, March 1, 1920		\$2000.00
Appropriation, Workmen's Compensation		2200.00
Smart & Flagg, Agents, insurance	\$1378.60	
Merrimack Mut. Fire Ins. Co.	1588.60	
	<hr/>	
Total expenditure	2967.20	
Balance	1232.80	
	<hr/>	<hr/>
	\$4200.00	\$4200.00

HAY SCALES

Appropriation, March 1, 1920		\$125.00
Receipts		70.50
Fairbanks Co., repairs	\$ 12.80	
J. E. Pitman, labor	317.68	
William C. Brown, weigher	100.00	
Frank E. Dodge, labor	19.56	
	<hr/>	
Total expenditure	450.04	
Overdrawn		254.54
	<hr/>	<hr/>
	\$450.04	\$450.04

INTEREST

Appropriation, March 1, 1920		\$15000.00*
Interest received on deposits		686.53
Paid 158 Water Bond Coupons at \$20	\$3160.00	
Paid 79 Water Bond Coupons at \$17.50	1382.50	
Paid 170 Sewer Bond Coupons at \$20	3400.00	
Paid 186 High School Bond Coupons at \$20	3720.00	
Paid 10 Andover Loan Act Bond Coupons at \$20	200.00	
Interest on Notes 1 to 12	3874.62	
	<hr/>	
Total expenditure	15737.12	
Overdrawn		50.59
	<hr/>	<hr/>
	\$15737.12	\$15737.12

WATER SINKING FUND

Appropriation, March 1, 1920		\$750.00
Thomas E. Rhodes, Treas., Sink. F'ds	\$750.00	
	<hr/>	<hr/>
	\$750.00	\$750.00

SEWER SINKING FUND

Appropriation, March 1, 1920		\$1000.00
Thomas E. Rhodes, Treas., Sink. F'ds	\$1000.00	
	<hr/>	<hr/>
	\$1000.00	\$1000.00

STREET LIGHTING

Appropriation, March 1, 1920		\$6700.00
Lawrence Gas Company	\$6574.73	
Balance	125.27	
	<hr/>	<hr/>
	\$6700.00	\$6700.00

STATE TAX AND HIGHWAY TAX

Andover's proportion of State Tax		\$25900.00
Andover's proportion of Highway Tax		5423.12
Special State Tax		1221.00
Bank Tax		2098.10
Eastern Mass. St. R. R. Co., Tax		214.05
Civilian War-Poll Tax		5823.00
James Jackson, Treasurer and Receiver		
General	\$40679.27	
	<hr/>	<hr/>
	\$40679.27	\$40679.27

COUNTY TAX

Andover's proportion of County Tax		\$15291.96
David I. Robinson, County Treas.	\$15291.96	
	<hr/>	<hr/>
	\$15291.96	\$15291.96

MEMORIAL HALL LIBRARY

Appropriation, March 1, 1920		\$3000.00
Frederic S. Boutwell, Treasurer Memorial		
Hall Library	\$3000.00	
	<hr/>	<hr/>
	\$3000.00	\$3000.00

NOTES GIVEN

April	3, Andover National Bank, Note No. 1 due Nov. 19, Rate 5.70	\$ 25000.00
April	3, Andover National Bank, Note No. 2 due Nov. 25, Rate 5.70	10000.00
April	3, Andover National Bank, Note No. 3 due Nov. 25, Rate 5.70	5000.00
April	3, Andover National Bank, Note No. 4 due Dec. 10, Rate 5.70	20000.00
June	24, Andover National Bank, Note No. 5 due Nov. 19, Rate 6.10	5000.00
June	24, Andover National Bank, Note No. 6 due Dec. 21, Rate 6.10	25000.00
June	25, Andover National Bank, Note No. 7 due Nov. 12, Rate 6.10	5000.00
June	25, Andover National Bank, Note No. 8 due Nov. 26, Rate 6.10	5000.00
June	28, Andover National Bank, Note No. 9 due Nov. 12, Rate 6.10	5000.00
June	26, Andover National Bank, Note No. 10 due Nov. 1, Rate 6.10	5000.00
June	26, Andover National Bank, Note No. 11 due Dec. 27, Rate 6.10	5000.00
July	16, Andover National Bank, Note No. 12 due Dec. 3, Rate 6.10	5000.00
		<hr/>
		\$120000.00

NOTES PAID

Nov. 3, Andover National Bank, Note No. 10	\$ 5000.00
Nov. 13, Andover National Bank, Note No. 7	5000.00
Nov. 17, Andover National Bank, Note No. 9	5000.00
Nov. 20, Andover National Bank, Note No. 1	25000.00
Nov. 20, Andover National Bank, Note No. 5	5000.00
Nov. 29, Andover National Bank, Note No. 2	10000.00
Nov. 29, Andover National Bank, Note No. 3	5000.00
Nov. 29, Andover National Bank, Note No. 8	5000.00
Dec. 4, Andover National Bank, Note No. 12	5000.00
Dec. 10, Andover National Bank, Note No. 4	20000.00
Dec. 22, Andover National Bank, Note No. 6	25000.00
Dec. 30, Andover National Bank, Note No. 11	5000.00
	<hr/>
	\$120000.00

DOG TAX

Received from County Treasurer		\$504.14
Paid F. S. Boutwell, Treasurer Memorial Hall Library	\$504.14	
	<hr/>	<hr/>
	\$504.14	\$504.14

MEMORIAL DAY

Appropriation, March 1, 1920		\$450.00
Ballard Holt, Quartermaster	\$450.00	
	<hr/>	<hr/>
	\$450.00	\$450.00

POST 99, G. A. R.

Appropriation, March 1, 1920		\$100.00
Ballard Holt, Quartermaster	\$100.00	
	<hr/>	<hr/>
	\$100.00	\$100.00

RETIREMENT OF VETERANS

Appropriation, March 1, 1920		\$300.00
Paid to Veteran	\$300.00	
	<hr/>	<hr/>
	\$300.00	\$300.00

PUBLIC DUMP

Appropriation, March 1, 1920		\$75.00
Olof Benson, Keeper	\$75.00	
	<hr/>	<hr/>
	\$75.00	\$75.00

REDEMPTION OF BONDS

Appropriation, March 1, 1920

Water		\$ 8000.00	
High School		6000.00	
Andover Loan Act		5000.00	
Sewer		5000.00	
Abbott Village Sewer Assessments		357.18	
5 Sewer Bonds 161-165 inclusive	\$ 5000.00		
5 High School Bonds 16-20 inclusive	5000.00		
1 High School Bond No. 103	1000.00		
5 Andover Loan Act Bonds, 36-40 inclusive	5000.00		
1 Water Bond No. 290	1000.00		
1 Water Bond No. 218	1000.00		
1 Water Bond No. 336	1000.00		
2 Water Bonds Nos. 253-254	2000.00		
2 Water Bonds Nos. 347-348	2000.00		
1 Water Bond No. 319	1000.00		
Total	24000.00		
Balance	357.18		
		<hr/>	<hr/>
		\$24357.18	\$24357.18

MISCELLANEOUS

Appropriation, March 1, 1920		\$3000.00
Edith P. Sellars, Clerk	\$890.00	
American Railway Ex. Co.	4.11	
S. T. Shattuck & Sons, labor	21.50	
W. J. Morrissey, auto hire	124.00	
Bureau of Accounts, certif. of bonds	22.00	
J. H. Playdon, supplies	20.00	
New Eng. Tel. & Tel. Co.	9.75	
Lung Motor Co., apparatus	150.00	
Arthur L. Cole, desk	49.50	
Walter S. Donald, perambulating town lines	25.00	
Charles Bowman, perambulating town lines	25.00	
Andrew McTernan, perambulating town lines	25.00	
Thomas F. Dailey, labor	16.50	
Selectmen's expenses	10.00	
Assessors' expenses and carfares	73.70	
Auto List Pub. Co.	10.00	
J. E. Pitman, labor	453.22	
Andover Art Store, supplies	1.75	
C. A. Hill & Co.	30.79	
Andover National Bank, safe deposit box	5.00	
Lilla D. Stott, probate and registry returns	51.28	
W. and L. E. Gurley, supplies	15.28	
National Map Co., supplies	4.95	
William F. Gledhill, fish warden	10.00	
C. L. Wilson, labor	5.00	
Benjamin Jaques, wood	5.00	
Charles Buckley, use of horse	5.00	
David L. Coutts, auto hire	5.00	
Andover Grill, supplies	10.00	
<i>Amount carried forward</i>	<hr/> \$2078.33	

Appropriation, March 1, 1920		\$3000.00
<i>Amount brought forward</i>	\$2078.33	
George A. Higgins, town clerk, expenses	49.50	
Fairbanks Co., scales	174.25	
Irving R. Shaw, auto hire	8.00	
B. A. Wheeler, labor	12.50	
Banker and Tradesman	7.00	
Louis Resnik	7.60	
A. P. Wright, Field Driver	25.00	
John A. Riley, labor and supplies	26.20	
C. M. Hewes, clerical work	15.00	
E. M. Lundgren, return of deaths	19.25	
Edgerley & Bessom, return of death	.25	
M. J. Mahoney, return of deaths	4.25	
Edward L. Bennett, return of deaths	1.00	
John J. Breen, return of deaths	1.25	
Dr. P. J. Look, return of births	11.00	
Dr. W. D. Walker, return of births	6.75	
Dr. E. D. Lane, return of births	6.00	
Dr. J. J. Daly, return of births	3.25	
Dr. Chas E. Abbott, return of births	2.50	
Dr. E. C. Conroy, return of births	1.00	
	<hr/>	
Total expenditure	2459.88	
Balance	540.12	
	<hr/>	
	\$3000.00	\$3000.00

OVERSEERS OF THE POOR

The Overseers of the Poor submit the following report for the year ending December 31, 1920:

The Town Farm is still under the efficient management of Mrs. Swanton as Superintendent and Matron, which is an assurance that the inmates are being well cared for. The inmates, who are all of advanced years, are able to render very little help about the Home; four of them having to be served with meals in their rooms.

The report of the Committee appointed by the Moderator will be found on another page and the vote of the Town will determine the action of the Selectmen and Overseers of the ensuing year.

WALTER S. DONALD
CHARLES BOWMAN
ANDREW McTERNEN

Overseers of the Poor

ALMSHOUSE EXPENSES

Appropriation, March 1, 1920		\$4500.00
Receipts from Town Farm		497.33
Mrs. F. A. Swanton, matron	\$ 766.67	
Mary Adams, labor	480.00	
Mrs. Baxter, labor	30.40	
Mrs. Jennie Page, labor	71.72	
Mrs. Myrtie Burns, labor	30.20	
Bertha E. Johnson, labor	35.00	
Jessie Fowler, labor	30.60	
William B. Corliss, grain	207.51	
The Family Shoe Store	32.73	
E. T. Hethrington, groceries	311.39	
Lawrence Gas Co.	241.32	
Albert W. Lowe, supplies	40.95	
C. S. Buchan, supplies	29.45	
Swift & Co., supplies	12.00	
Buchan & McNally, supplies	4.50	
Frank L. Holt, labor	175.25	
Mrs. H. M. Eames, grain and potatoes	63.09	
New England Tel. & Tel. Co.	9.55	
Hiller & Co., supplies	15.01	
Beach Soap Co., supplies	12.70	
E. E. Gray & Co., provisions	200.77	
F. H. Stacey, supplies	12.75	
John Shea, grain	85.60	
J. H. Campion & Co., groceries	190.24	
H. Bruckmann, grain	320.20	
Lindsay and Young, provisions	327.19	
<i>Amount carried forward</i>	<u>\$37366.79</u>	

Appropriation and Receipts	\$4997.33
<i>Amount brought forward</i>	\$3736.79
Rockport Market, provisions	93.40
Armour & Co., supplies	6.75
A. B. Sutherland Co., supplies	6.23
S. K. Ames, provisions	28.86
A. B. Loomer, provisions	254.94
Anderson and Bowman, blacksmith work	49.30
Reid and Hughes Co., supplies	78.67
J. E. Edwards, supplies	6.10
Frank L. Cole, supplies	41.00
Walter I. Morse, supplies	85.26
Frederick C. Small Co., supplies	89.84
Standard Oil Co., supplies	3.75
West Disinfecting Co., supplies	4.50
Chemo Co., supplies	10.00
C. A. Hill & Co., supplies	14.05
Herbert W. Holt, labor	115.00
C. L. Wilson, labor	3.90
The "Whatnot," supplies	1.26
H. F. Chase, supplies	1.05
Andover Coal Co., coal	313.43
George D. Ward, labor	6.75
Robert V. Deyermund, labor	19.22
William C. Crowley, supplies	4.75
John D. Blackshaw, repairing	5.00
Board of Public Works	42.74
Chester D. Abbott, supplies	55.58
R. H. Sugatt, clothing	34.50
Curtis Shoe Shop, repairs	10.85
O. P. Chase, supplies	24.50
Andover Steam Laundry, laundry	6.46
James E. McGovern, supplies	15.00
People's Ice Co., ice	77.25
Herbert Lewis	2.25
<i>Amount carried forward</i>	\$5248.93

Appropriation and Receipts		\$4997.33
<i>Amount brought forward</i>	\$5248.93	
Shawsheen Market Inc., provisions	249.83	
Providence Churning Co., supplies	9.00	
C. I. Alexander & Sons, supplies	4.23	
J. H. Playdon	7.00	
Robert J. Barrett, labor	45.32	
Agnes H. West, supplies	15.84	
Daniel P. Webster, labor	7.00	
Warren L. Johnson, butter	13.60	
Andrew Basso, provisions	42.69	
John Ferguson, repairing	1.65	
Benjamin Jaques, fuel	13.00	
	<hr/>	
Total expenditure	5658.09	
Overdrawn		660.76
	<hr/>	<hr/>
	\$5658.09	\$5658.09

ALMSHOUSE REPAIRS

Appropriation, March 1, 1920		\$300.00
Frank E. Dodge, labor	\$ 40.36	
Gray & Kendall, labor	9.90	
Board of Public Works	15.40	
Buchan & McNally, repairs	18.93	
Merrimac Boiler Works, re-tubing	394.25	
	<hr/>	
Total expenditure	478.84	
Overdrawn		178.84
	<hr/>	<hr/>
	\$478.84	\$478.84

SOLDIERS' RELIEF

Appropriation, March 1, 1920		\$1200.00
Total expenditure	\$ 940.34	
Balance	259.66	
	<hr/>	<hr/>
	\$1200.00	\$1200.00

STATE AID

Appropriation, March 1, 1920		\$1500.00
Total expenditure	\$ 648.00	
Balance	852.00	
	<hr/>	<hr/>
	\$1500.00	\$1500.00

RELIEF OUT OF ALMSHOUSE

Appropriation, March 1, 1920		\$4000.00
Paid out of Almshouse	\$2721.85	
Paid other cities and towns	207.00	
Paid State	183.14	
Paid on account of State	276.50	
	<hr/>	
Total expenditure	3388.49	
Due town from State	276.50	
	<hr/>	
Net expenditure	3111.99	
Balance	888.01	
	<hr/>	<hr/>
	\$4000.00	\$4000.00

AIDING MOTHERS WITH DEPENDENT CHILDREN

Appropriation, March 1, 1920		\$3000.00
Town cases	\$3009.19	
On account of other cities and towns	1241.00	
On account of State	180.00	
	<hr/>	
Total expenditure	4430.19	
Due from cities and towns	586.33	
Due from State	812.58	
	<hr/>	
	1398.91	
	<hr/>	
Net expenditure	3031.28	
Overdrawn		31.28
	<hr/>	<hr/>
	\$3031.28	\$3031.28

PERSONAL PROPERTY AT ALMSHOUSE

House Furniture	\$1050.00	
Clothing	200.00	
Farm Stock	460.00	
Farm Produce	375.50	
Provisions	75.00	
Farm tools	350.00	
Fuel	136.00	
	<hr/>	
		\$2646.50

FARM CASH REPORT

Received for

Cows and boarding cows	\$456.00
Pork	28.50
Eggs	23.48
Milk	43.35
Apples	6.00
	<hr/>
	\$557.33

Paid for

Pigs	\$ 24.00
Chickens	36.00
Town treasurer, cash	497.33
	<hr/>
	\$557.33

MRS. F. A. SWANTON,

Matron

Number of inmates Jan. 1, 1920	7
Number admitted	3
Number of inmates, Jan. 1, 1921	10
Number over eighty years of age	2
Number between seventy and eighty	2
Number between sixty and seventy	5
Number between fifty and sixty	1

ASSESSORS' REPORT

We herewith submit our annual report : —

Number of male polls assessed		2323
Personal estate	\$2042541.00	
Real estate	8044225.00	
	<hr/>	\$10086766.00
Poll tax	9705.00	
Tax on personal estate	50043.74	
Tax on real estate	197085.04	
	<hr/>	\$256833.78

Rate of taxation per \$1000, \$24.50

Number of		
Horses assessed		497
Cows assessed		903
Sheep assessed		107
Neat cattle assessed		227
Swine assessed		229
Fowls assessed		11485
Dwellings assessed		1787
Acres of land assessed		17816

WALTER S. DONALD
CHARLES BOWMAN
ANDREW McTERNEN

Assessors of Andover.

REPORT OF TREE WARDEN

I have planted, trimmed, and removed some trees, also have done some brush cutting in the outlying districts, but owing to the lack of funds I was not able to do as much work as should have been done. In order to carry on the work of this Department I ask that the sum of \$3000.00 be appropriated.

Respectfully,

EDWARD H. BERRY

Tree Warden

REPORT OF MOTH SUPERINTENDENT

In submitting my report of this department I would say there is every indication of a return of the brown-tail moth next summer after an absence of four years, and unless the owners of trees attend to this condition there is sure to be havoc in the trees of Andover. There is also an abundance of gypsy moths. I advise all property owners to get busy at once to destroy the moth nests or else notify the tree-warden who will give the matter prompt attention. The situation is serious and demands immediate action.

Respectfully,

EDWARD H. BERRY

Moth Superintendent

POLICE DEPARTMENT

REPORT OF CHIEF

To the Board of Selectmen.

GENTLEMEN:— I herewith submit the report of the Police Department for the year ending Dec. 31, 1920.

Whole number of arrests, 149. Males 137. Females 12.

OFFENSES FOR WHICH ARRESTS WERE MADE

Bigamy	1
Manslaughter	2
Larceny	12
Violation of Motor Vehicle Law	44
Drunkenness	16
Assault	8
Malicious mischief	7
Vagrancy	1
Insane	12
Attempt to rape	1
Breaking and entering	4
Safe keeping	4
Disturbance	4
Abandoned child	2
Neglect of child	1
Gaming on the Lord's day	4
Trespass	4
Neglected children	2
Adultery	3
Town ordinance	3
Assault on wife	1
Violation of the Volstead Act	6

Obscene Literature	1
Peddling without license	1
Cruelty to animals	1
Illegal transporting	4

Total	149
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DISPOSITION OF CASES

Committed to Essex County Training School	1
Committed to Lyman School for Boys	2
On probation	5
Suspended sentence to House of Correction	7
Suspended sentence to State Farm	4
Returned to Tewksbury Infirmary	2
Returned to State Board of Charities	2
Committed to House of Correction	6
Continued for sentence	6
Held for Grand Jury	4
Paid fines in lower court	43
Arrested for out-of-town officers	12
Committed to Danvers State Hospital	12

MISCELLANEOUS

Fines paid in lower court	\$760.00
Fines paid in Superior Court	595.00
Value of property reported stolen	3024.45
Value of property recovered	1458.45
Value of police equipment	600.00
Dead bodies cared for	2
Doors left open and secured	78

SUPERIOR COURT FINDINGS

No bill found	2
Cases pending	1
On probation	3
Paid fines	8

FRANK M. SMITH

Chief of Police

SPRING GROVE CEMETERY

The Trustees of Spring Grove Cemetery submit the following report: —

This Department, like other departments, has had to contend with labor conditions and thus we have not been able to accomplish the amount of work that we had hoped for.

The Avenue on the East side connecting the lower side with the gate entrance is nearly completed and will probably be ready for use next year. All avenues and walks that have not been in use in times past have been and are being filled in and thus we have been making a few more lots on the West side. Quite a number of half-lots have been staked off this year for parties who do not require a regular sized lot.

One plot of ground has been graded on the East side but not staked out as yet. The ground on the East side which has been cleared and worked over for the past two or three years is now ready to be sowed down.

The Superintendent has carried on the work during the past year with satisfactory results to the Trustees and to others who are interested, and has all lots accounted and cared for with the exception of about one hundred lots of which we hope to report a smaller number not cared for next year.

One serious situation has presented itself before the Trustees for the last two years, namely the tomb. Water has been leaking through the masonry work, making the place very wet and damp. There is not enough room under present conditions for receiving caskets and your Trustees feel that something should be done right away to remedy conditions and we therefore ask for an appropriation of \$7500.00 and receipts for the reconstruction of the tomb and regular running expenses.

GEORGE D. MILLETT	WARREN L. JOHNSON
WALTER I. MORSE	JOHN W. STARK
DANIEL H. POOR	FRED E. CHEEVER
DAVID R. LAWSON	

Board of Trustees

WARREN L. JOHNSON, *Clerk, Board of Trustees*

REPORT OF SUPERINTENDENT

To the Board of Trustees: —

I herewith submit my annual report as Superintendent of Spring Grove Cemetery for the year ending December 31, 1920.

Aside from the regular care of the cemetery we have grassed over several roads and walks that were unnecessary, in order to save expense in caring for them and to make more land for lots. We have also ashed several roads. On the new side we have laid pipe to carry the water on to the east side.

We have ploughed up a large piece of stump land; done some grading and cleared a large piece of brush land. Owing to the high cost of labor we have not been able to accomplish as much as we hoped to do. Many have put their lots under Perpetual Care during the past year and I would recommend all that possibly can to do so, as it is by far the most satisfactory way. I wish to thank the lot owners for their co-operation during the past year.

Respectfully submitted,

F. A. SWANTON

Superintendent

STATISTICS OF SPRING GROVE CEMETERY

Lots sold as per last report	502
Lots sold in 1920	20
Total lots sold	522
Total number of single graves sold	191
Interments as per last report	1471
Interments in 1920	64
Total interments	1535

ANIMAL INSPECTOR'S REPORT

To the Board of Selectmen: —

GENTLEMEN:—I hereby submit my report for the year beginning November 15, 1919, and ending November 15, 1920.

Number of cattle inspected	1442
Number of stables inspected	160
Number of cows condemned because affected with tuberculosis	21
Number of stables disinfected	16
Number of interstate animals identified and released from quarantine	117

Respectfully submitted,

CHARLES H. NEWTON

Inspector of Animals

REPORT OF INSPECTOR OF BUILDINGS

To the Board of Selectmen.

GENTLEMEN:— I herewith submit my report of the Building Inspector's Department from December 31, 1919, to December 31, 1920.

Whole number of permits granted	207
Number of addition and alteration permits granted	59
Number of new building permits granted	146
One and two family dwelling-houses	95
Garages	22
Barns	6
Warehouses	3
Business blocks	1
Camps	4
Elevators	4
Miscellaneous buildings	14

Respectfully submitted,

JOSEPH I. PITMAN,

Building Inspector

SCHEDULE OF TOWN PROPERTY

Town House and fixtures	\$50000.00	
Engine House, storehouse and barn	25000.00	
25723 feet land	20000.00	
		<hr/>
		\$95000.00
Memorial Hall	30000.00	
22318 feet land	12000.00	
		<hr/>
		42000.00
Engine House, Ballardvale	6000.00	
New shed	200.00	
1-3 acre land	300.00	
		<hr/>
		6500.00
Almshouse	16000.00	
Barn and other buildings	3800.00	
31 1-2 acres land	7000.00	
		<hr/>
		26800.00
Punchard High School	94000.00	
4 acres land	8000.00	
		<hr/>
		102000.00
John Dove Schoolhouse	25000.00	
Heating plant, Jackson schoolhouse	30000.00	
Stowe schoolhouse	31000.00	
3 3-4 acres land	6000.00	
		<hr/>
		92000.00
Bradlee schoolhouse, Ballardvale	23000.00	
1 acre land	500.00	
		<hr/>
		23500.00
Richardson schoolhouse	7000.00	
1-2 acre land	400.00	
		<hr/>
		7400.00
		<hr/>
<i>Amount carried forward</i>		\$395200.00

<i>Amount brought forward</i>		\$395200.00
Indian Ridge schoolhouse	\$17000.00	
1 acre land	800.00	
	<hr/>	17800.00
West Center schoolhouse	3500.00	
1-2 acre land	150.00	
	<hr/>	3650.00
North District schoolhouse	3500.00	
1-2 acre Land	50.00	
	<hr/>	3550.00
Bailey District schoolhouse	2500.00	
1-2 acre land	50.00	
	<hr/>	2550.00
Osgood District schoolhouse	2000.00	
1-2 acre land	50.00	
	<hr/>	2050.00
Old schoolhouse, Ballardvale	3000.00	
1-4 acre land	500.00	
	<hr/>	3500.00
9 acres land, Indian Ridge (gravel pit)	3000.00	
41 1-2 acres land, Carmel Woods Res- ervation	3600.00	
173751 feet land, Central Park, (Rich- ardson Field)	15000.00	
Band Stand	1000.00	
6 1-2 acres land, Playstead	5000.00	
20 1-2 acres land, Playstead, Ballardvale	500.00	
41 1-2 acres land, Spring Grove Cemetery	9000.00	
Receiving tomb and toolhouse	1500.00	
	<hr/>	38600.00
Andover Board of Public Works —		
Pipe lines and fountains	248000.00	
Pumping station and buildings	42500.00	
Coal shed	700.00	
3 acres land	800.00	
Two reservoirs	16000.00	308000.00
	<hr/>	<hr/>
<i>Amount carried forward</i>		\$774900.00

<i>Amount brought forward</i>		\$774900.00
4 1-2 acres land	\$2350.00	
28 acres land, Boston Ice Co., Haggitt's Pond	2500.00	
Workshop, Lewis Street	1600.00	
Old Stable, Lewis Street	1000.00	
Barn and shed, Lewis Street	3000.00	
47467 feet land, Lewis Street	3000.00	
House, Engineer's house	2500.00	
Pump house, east side of No. Main Street	5000.00	
Steam road roller	5500.00	
3 sleds	75.00	
1 auto	300.00	
3 horses	800.00	
Carts and harnesses	200.00	
Sewer System (30 acres Filter Beds)	293000.00	
Workshop, Lewis Street	1600.00	
Old stable (Low)	1000.00	
Barn and shed, Lewis Street	3000.00	
47467 feet land, Lewis Street	3000.00	
		329425.00
 Punchard School Fund		76454.28
Memorial Hall, Permanent Fund	45000.00	
Memorial Hall Library, John Cornell Fund	7700.00	
Memorial Hall Library, John Byers Fund	10000.00	
Memorial Hall Library, Edward Taylor Fund	500.00	
Memorial Hall Library, Isaac E. Giddings Fund	3000.00	
Memorial Hall Library and furniture	10000.00	76200.00
 <i>Amount carried forward</i>		\$1256979.28

<i>Amount brought forward</i>		\$1256979.28
Memorial Hall Library, Woman's Christian Temperance Union	100.00	
Memorial Hall Library, Phillips Fund	3200.00	
	<hr/>	3300.00
Personal Property at Town Farm		2646.50
Motor Combination Chemical Truck		5300.00
Motor Combination Pump and Truck		9000.00
One Steam Fire Engine and apparatus		2000.00
Hook and Ladder Truck		1000.00
Two hose wagons		1000.00
Hose sled		60.00
Four horses		1000.00
Hay scales		350.00
Safes in Town House		800.00
41 1-2 acres land, Spring Grove Cem'y	9000.00	
Receiving tomb and tool-house	1500.00	
	<hr/>	10500.00
Weights and measures		350.00
Fire Alarm apparatus		5000.00
4000 feet hose		2000.00
		<hr/>
		\$1301285.78

TOWN OF ANDOVER — JURY LIST

Abbott, Newton S.
Averill, George L.
Angus, John C.
Bailey, Samuel H.
Baxter, George H.
Barrett, Patrick J.
Burns, David F.
Cates, A. Lincoln
Cannon, Gordon R.
Carter, George M.
Clark, Herbert
Cheever, Fred E.
Cole, Roscoe K.
Cole, Joseph F.
Cutler, Howard A.
Dane, Louis A.
Dick, James
Disbrow, George W.
Dunnells, George C.
Flanders, Charles W.
Flint, Edwin M.
Garland, George M.
Greenwood, Charles H.
Hannon, Patrick J.
Hannon, Lawrence J.
Harrington, Daniel F.
Hill, Ira B.
Holt, George A.
Holt, John V.

Holt, George E.
Hovey, James H.
Keane, Mark M.
Kendall, Frank H. E.
Lawrence, George F.
Lockhead, Robert
Livingston, Porter I.
Maddox, John
Mahoney, Timothy J.
May, George M.
McGovern, Clarence F.
Morse, George E.
Michilini, Dionecio
Miller, George R.
Nason, Harry C.
Nolan, Joseph P.
Noyes, John L.
O'Connell, Walter J.
O'Donnell, Hugh F.
O'Hara, Robert W.
Riley, John A.
Riley, Joseph A.
Robinson, William C.
Roggemann, Edward
Saunders, George
Seacole, Walter H.
Scott, Joseph B.
Scott, David M.
Shaw, George

Shaw, Irving R.
Sherry, Frank J.
Stott, George L.
Taylor, Loren E.
Todd, Henry
Tuttle, Benjamin B.

Valpey, Frank D.
Valentine, Franklin
Walker, Salmond C.
Whitman, David O.
Wrigley, Thomas

REPORT OF TAX COLLECTOR

To the Board of Assessors:

The following is the Report of the Collector of Taxes for the year ending December 31, 1920.

1917

Amount as per warrant		\$ 3113.94
Added to warrant		5.96
Moth work		24.00
Street sprinkling		18.51
Interest		466.34
Collected Taxes	\$ 2897.70	
Collected moth work	24.00	
Collected street sprinkling	18.51	
Collected interest	466.34	
Abated	222.20	

\$3628.75	\$3628.75
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1918

Amount as per warrant		\$11572.26
Added to warrant		9.38
Street sprinkling		42.21
Moth work		113.40
Interest		1010.09
Collected taxes	\$10251.17	
Collected street sprinkling	42.21	
Collected moth work	113.40	
Collected interest	1010.09	
Abated	520.38	
Uncollected	810.09	

\$12747.34	\$12747.34
------------	------------

1919

Amount as per warrant		\$28802.36
Added to warrant		39.37
Moth work		238.80
Interest		648.22
Collected taxes	\$19641.35	
Collected moth work	238.80	
Collected interest	648.22	
Abated	284.00	
Uncollected	8916.38	
	\$29728.75	\$29728.75

1920

Amount as per warrant		\$256833.78
Added to warrant		196.40
Moth work		3956.48
Interest		226.12
Collected taxes	\$223265.31	
Collected moth work	3956.48	
Collected interest	226.12	
Abated	707.05	
Uncollected	33057.82	
	\$261212.78	\$261212.78

SUMMARY COLLECTOR'S CASH ACCOUNT, 1920

AMOUNT COLLECTED AND PAID TO TOWN TREASURER

	<i>Taxes</i>	<i>Moth Work</i>	<i>Street Sprinkling</i>	<i>Interest</i>	<i>Total</i>
1917	\$ 2897.70	\$ 24.00	\$18.51	\$ 466.34	\$ 3406.55
1918	10251.17	113.40	42.21	1010.09	11416.87
1919	19641.35	238.80		648.22	20528.37
1920	223265.31	3956.48		226.12	227447.91
	\$256055.53	\$4332.68	\$60.72	\$2350.77	\$262799.70

WILLIAM B. CHEEVER, *Collector of Taxes*

TREASURER'S REPORT

FINANCIAL STATEMENT

Liabilities

Water Bonds, 4% (5000 due 1921)	\$77000.00	
Water Bonds, 3½% (3000 due 1921)	38000.00	
Sewer Bonds, 4% (5000 due 1921)	80000.00	
Sewer Bonds, 5% (2000 due 1921)	40000.00	
High School Loan, 4% (6000 due 1921)	87000.00	
	<hr/>	\$322000.00

Assets

Cash, General Fund	\$22119.06	
Cash, Water Loan	5026.59	
Cash, Sewer Loans	587.59	
Cash, Sewer Premium	858.22	
War Memorial Book	3000.00	
	<hr/>	31591.46
Uncollected taxes	42784.29	
Moth work	322.50	
	<hr/>	43106.79
Commonwealth, State Aid	648.00	
Commonwealth, Temporary Aid	276.50	
Cities and Towns, Mothers' Aid	586.33	
Commonwealth, Mothers' Aid	812.58	
Sewer Assessments	3859.52	
Unpaid Water Rates of January 1st	6869.19	
Sinking Funds	52196.49	
	<hr/>	65248.61
Balance against Town		182053.14
		<hr/>
		\$322000.00

GEORGE A. HIGGINS, *Treas., in*

DR.	
Balance Jan. 1, 1920, General Fund	\$28689.46
Balance Jan. 1, 1920, Water Loan	5026.59
Balance Jan. 1, 1920, Sewer Loan	356.59
Balance Jan. 1, 1920, Sewer Assessments for Sinking Funds	323.81
Commonwealth, Corporation Tax	20816.09
Commonwealth, Bank Tax	10145.28
Commonwealth, Income Tax, 1920	25479.18
Commonwealth, Income Tax, 1919	3700.00
Commonwealth, Income Tax, 1918	100.00
Commonwealth, Income Tax, 1917	50.00
Commonwealth, Soldiers' Exemption	63.72
Commonwealth, General School Fund	7551.00
Commonwealth, Reimbursement taxes on land	148.74
Commonwealth, Street Railway Tax	75.96
Commonwealth, State Aid	837.00
Commonwealth, School Tuition	117.75
Commonwealth, Industrial School	97.87
Commonwealth, Mothers' Aid	2084.32
Commonwealth, Temporary Aid	325.82
Commonwealth, Highway Commission, Lowell Street	12500.00
Commonwealth, Highway Commission, Moth Work	91.08
Commonwealth, Hawker's License	13.00
Essex County, Lowell Street	12500.00
Essex County, Dog Tax	504.14
Essex County, Killing Dogs	32.00
Essex County, Essex Street Bridge	1035.94
Eastern Mass. Street Railway, Excise Tax, 1918	272.32
Andover National Bank, Notes	120000.00
Collector's Department, Taxes	256055.53
Collector's Department, Interest on Taxes	2350.77
Collector's Department, Street Sprinkling	60.72
Collector's Department, Moth Work	4332.68
Collector's Department, Interest on Deposits	234.01

Amount carried forward

\$515971.37

account with the Town of Andover

CR.

Orders paid	
Schools	\$ 92569.45
Highway Department	61044.33
Lowell Street	37500.00
Essex Street Bridge	1025.40
Wolcott Ave.,	1492.37
Park Department	1506.93
Street Lighting	6574.73
Police Department	8804.67
Fire Department	20152.37
Brush Fires	1100.39
Printing and Stationery	2995.71
Insurance	2967.20
Miscellaneous	2459.88
Town House	2416.07
New Boilers	2054.84
Town Officers	8529.74
Spring Grove Cemetery	5574.64
Board of Health	2735.05
Moth Work	7135.53
Tree Warden	1225.30
Public Dump	75.00
Hay Scales	450.04
Interest on Notes and Bonds	15737.12
Memorial Day	450.00
Special G. A. R. Appropriation	100.00
Memorial Hall Library	3000.00
Memorial Hall Library, Dog Tax	504.14
Almshouse Expenses	5658.09
Almshouse Repairs	478.84
Relief Out of Almshouse	3388.49
Soldiers' Relief	940.34
State Aid	648.00
Mothers' Aid	4430.19

Amount carried forward

\$305724.85

GEORGE A. HIGGINS, Treas., in

DR.

<i>Amount brought forward</i>	\$515971.37
Board of Public Works, Water Rates	31416.47
Board of Public Works, Service Pipe	7894.09
Board of Public Works, Highway Department	5200.84
Board of Public Works, Sidewalk Assessments	132.00
W. C. Crowley, Sealer's Fees	63.94
George A. Higgins, Town Clerk's Fees	212.50
Old Schoolhouse, Ballard Vale, Rents	153.00
Colver J. Stone, Trial Justice, Fines	223.50
Almshouse	497.33
Spring Grove Cemetery, Sale and care of lots, etc.	3099.40
Town House, Rents	675.75
Hay Scales	70.50
School Department, Tuition and supplies	368.87
Auto Dealer's License	25.00
Mother's Aid, Towns	647.53
Cities and Towns, Temporary Aid	186.41
Fire Department, Use of horses	1499.18
Fire Department, sale of materials	76.17
Sewer Department, Assessments	642.10
Sewer Department, Interest on Assessments	48.70
Sewer Department, House Connections	1214.78
Old Colony Trust Company, Sewer Bonds	40000.00
Old Colony Trust Company, Premium on Bonds	936.00
Old Colony Trust Company, Accrued Interest on bonds	72.22
Shawsheen Sewer, sale of materials	5732.11
Andover National Bank, Interest on Deposits	686.53
Board of Health, Slaughter License	1.00
Board of Health, Garbage Licenses	2.50
Board of Health, Alcohol Licenses	5.00
F. H. Stacey, Milk Inspector	7.50
Phillips Academy, Street Lighting	230.00
Liquor License	1.00
Moth Department, labor	7.50
Tree Warden, labor	165.75
Police Dept., Special Duty	1041.10

Total Receipts

\$619207.64

account with the Town of Andover

	CR.	
<i>Amount brought forward</i>		\$305724.85
Retirement of Veterans		300.00
Redemption 8 Water Bonds		8000.00
Redemption 5 Sewer Bonds		5000.00
Redemption 5 Andover Loan Act Bonds		5000.00
Redemption 6 High School Bonds		6000.00
Water Department		29840.26
Sewer Department, Maintenance		2466.28
Sewer Department, Assessments, Sinking Funds		442.45
Sewer Department, House Connections		1363.03
Sewer Department, House Connection, Refund		106.97
Sewer Sinking Funds		1000.00
Water Sinking Funds		750.00
Shawsheen Sewer		45651.11
County Tax		15291.96
Commonwealth State Tax		25900.00
Commonwealth Bank Tax		2098.10
Commonwealth Highway Tax		5423.12
Commonwealth Special State Tax		1221.00
Commonwealth Poll Tax		5823.00
Commonwealth Street Railway Tax		214.05
Andover National Bank Notes		120000.00
		<hr/>
Total expenditures		\$587616.18
Balance on hand Jan. 1, 1920		
General Fund		22119.06
Water Loan		5026.59
Sewer Loan		587.59
Sewer Premium		858.22
War Memorial Book		3000.00
		<hr/>
		\$619207.64

Richardson Fund—Shawsheen Village School

DR.		
Balance January 1, 1920	\$1317.51	
Andover Savings Bank, interest	66.67	
	<hr/>	\$1384.18
CR.		
Deposit, Andover Savings Bank	\$1384.18	
	<hr/>	\$1384.18

Draper Fund—School

DR.		
Balance January 1, 1920	\$1181.01	
Andover Savings Bank, interest	56.02	
	<hr/>	\$1237.03
CR.		
Mabel K. Selden	\$ 19.30	
Punchard Alumni Association	150.00	
Deposit, Andover Savings Bank	1067.73	
	<hr/>	\$1237.03

Edward Taylor Fund—Fuel

DR.		
Balance January 1, 1920	\$ 273.26	
Andover Savings Bank, interest	13.82	
	<hr/>	\$ 287.08
CR.		
Deposit, Andover Savings Bank	\$ 287.08	
	<hr/>	\$ 287.08

Varnum Lincoln Spelling Fund

DR.		
Balance January 1, 1920	\$ 531.36	
Andover Savings Bank, interest	25.87	
	<hr/>	\$ 557.23
CR.		
H. C. Sanborn, Supt. of Schools	\$ 20.00	
Deposit, Andover Savings Bank	537.23	
	<hr/>	\$ 557.23

Isaac Giddings Burial Ground Fund

DR.

Balance January 1, 1920	\$1000.00	
Andover Savings Bank, interest	50.62	
	<hr/>	\$1050.62

CR.

F. H. Foster, Treas., South Cemetery	50.62	
Deposit, Andover Savings Bank	1000.00	
	<hr/>	\$1050.62

Cemetery Funds

PERPETUAL CARE

DR.

Balance, January 1, 1920	\$21632.88	
Andover Savings Bank, interest	1154.01	
Deposits for Perpetual Care	2875.00	
Andover National Bank Stock	200 00	
Andover National Bank Dividends	16.00	
Cash	70 00	
	<hr/>	\$25947.89

CR.

Spring Grove Cemetery, for care of lots	\$ 365.00	
Private Cemeteries, for care of lots	620 25	
Deposits, Andover Savings Bank	24686.64	
Andover National Bank Stock	200 00	
Cash	76.00	
	<hr/>	\$25947.89

FIRE DEPARTMENT

To the Selectmen of the Town of Andover.

GENTLEMEN: — I submit the following report of the Andover Fire Department from December 31, 1919, to December 31, 1920.

During this time the Department has answered 85 bell alarms and 11 still alarms. We have laid 3200 feet of 2½ in. hose and 2050 feet of 3-4 in. hose.

Value of buildings and contents where fires have occurred, \$17,500.00.

Loss on buildings \$7500.

Insurance on same \$9200.

The Department consists of One Combination Chemical Truck. One Combination Pump and Chemical Truck. One fourth class Fire Engine. One two horse Hose Wagon. One two horse Ladder Truck, and one spare Hose Wagon. Four Horses. Four sets Harness. Two Carts. There are 4650 feet of 2½ inch hose in good condition.

The Fire Alarm has been causing considerable trouble from poor wire. This wire has been in service for the past twenty years and should be replaced at once.

The earnings of the Horses and Drivers for the year are \$1266.30. We recommend that the sum of \$23500 be appropriated for the use of the Fire Department. We also recommend the purchase of an Auto Ladder Truck and selling the Horses at the Central Station.

CHARLES F. EMERSON,

Chief Engineer.

BOARD OF HEALTH

The Board of Health desires to bring to your notice what seems to be a most decided and desirable advance in the fundamental principle of its work, the conservation of Public Health. This has been brought about in a great measure by the appointment of a Board of Health Nurse, whose work has not only met with our hearty approval, but has been a great addition to the work of general nursing so well carried on by the District Nurse. The work has been so divided as to make the one supplemental to the other, thus avoiding the overlapping of both time and energy. A very marked advance has been made in one department which stands out prominently, that of Tuberculosis, in which more time has been given to individual cases, and has made possible the discovery of many new, and so called incipient cases. We are now able, as never before, to take advantage of the clinical work offered at North Reading, and the public clinics at Lawrence. The demonstration of Tuberculosis in the young has been a factor which is a step in the direction of elimination of the dread disease, and one which may well call for the hearty support of our townspeople. In other ways it has been a factor in the education of the public as to the curability of the disease when discovered and properly cared for in its early stages. It has also made the problem of Sanatorium treatment much easier. Our people now recognize the fact that a Tuberculosis Hospital is not merely a place of isolation, but is for the ultimate cure of the patient; the protection of the public, as well as the protection of the patient, now go hand in hand.

The elimination of the cases of infectious and contagious diseases from the District Nurse has allowed more time for inside nursing and social work. Thus as throughout the State, the duties of the social worker, as exemplified in the work of Miss

Campbell, can be given greater prominence. The work of Mrs. Johnson in tabulating statistics, by card indices and general clinical work, which does not show in this report, has been of great value not only to your local Board, but carries out more fully the work as suggested by the State Department of Health.

Your Board has also been able this year to carry out more directly the general sanitary problems of the town that are constantly brought to our attention. Much latitude was given in the rules of your Board during the World War in regard to the keeping of hogs, and such matters as seemed to aid in the conservation of food, but under the general supervision of our nurse, who was given the power of special agent of the Board, these matters have been conducted in a manner so that it has been no detriment to the health of the town. In other matters pertaining to the general welfare of the town we are gradually equipping a laboratory in the Board of Health Room in the Town House for the examination of milk, ice cream, butter, etc., and trust that such expenditure of money as may be made from time to time may be made judiciously, and in a manner to meet with your appropriation.

Respectfully submitted,

FRANKLIN H. STACEY
CHARLES E. ABBOTT, M. D.
BANCROFT T. HAYNES

Board of Health

REPORT OF BOARD OF HEALTH NURSE

To the Board of Health.

GENTLEMEN: —

I present the following report of my work as Board of Health Nurse from May 1 to December 31, 1920. Number of patients visited 230; number of calls 810.

The number of contagious diseases reported for the year was 302, classified as follows:

Influenza	171
Tuberculosis	18
Encephalitis Lethargica	1
Anterior Poliomyelitis	6
Typhoid Fever	2
Scarlet Fever	8
Diphtheria	15
Chicken Pox	20
Whooping Cough	17
Measles	31
Mumps	13
	<hr/> 302

MISCELLANEOUS CALLS

Emergencies	9
Surgical Dressings	11
Removed from Hospitals	1
Taken to Hospitals	3
To Venereal Clinic, Lawrence	2
To Clinic at North Reading	4
Cultures for Diphtheria and release	80
Erysipelas cases visited	3
Carcinoma	1

Attended New England Tuberculosis conference at Manchester, N. H., Dr. Pratt's Class at Mass. General Hospital and four Public Health Nurse meetings in New England.

My other work keeping all records, issuing licenses, etc.

Respectfully submitted,

LOTTA M. JOHNSON, R. N.

AUDITORS' CERTIFICATE

We have examined the accounts of the several town officers and find them correctly cast, with satisfactory vouchers for all payments.

The Town Treasurer has on deposit in Andover National Bank and cash on hand:

General Fund	\$22119.06
Water Loan	5026.59
Sewer Loan	587.59
Sewer Premiums	858.22
War Memorial Book	3000.00
	<hr/>
	\$31591.46

JOHN S. ROBERTSON
WALTER H. COLEMAN
HARRY SELLARS

Auditors

REPORT OF SCHOOL PHYSICIAN

I herewith present my report for the year ending December 31, 1920.

During the past year no unusual problems have arisen.

Miss Moreton has continued her work as school nurse in a highly satisfactory way.

There have been no serious epidemics and in general the health conditions among the scholars has been good. During the fall term three or four cases of diphtheria occurred at the Indian Ridge School and, in coöperation with the Board of Health, cultures were taken from the throats and noses of all the children in this building with the result that one "carrier" was found and excluded. No more cases occurred. Anterior poliomyelitis was epidemic in the autumn but no cases were found among school children. There have been occasional cases of other contagious diseases and these have been promptly excluded and quarantined at home.

A dental clinic is soon to be started in our schools under the supervision of the Red Cross and this is indeed a long step in the right direction. It is no exaggeration to say that 95% of our children have defective teeth and need dental care. Wallin claims that merely making dental repairs on a group of children raised their efficiency in the school 57%.

During the war, figures of the draft showed that one out of every three boys was physically unfit for service and that the percentage of those rejected in Massachusetts was larger than the average for the country. In the connection it seems to me that further effort is needed. We have done much in preventing the spread of contagious diseases, in eliminating handicaps such as enlarged tonsils, etc., but we must go further and do constructive work to build up our children physically as well as mentally. Some properly conducted course of physical training in connection with our school work would be a great help. In New York State there has been marked improvement in the physical condition of the school children since physical training has been adopted.

Respectfully submitted,

W. D. WALKER

CORNELL FUND

RECEIPTS

Amount of Fund	\$5000.00
Deposited in Savings Banks	5000.00

INCOME

Balance from last account	\$180.79	
Income	245.00	
	<hr/>	425.79

EXPENDITURES

Paid for coal and wood	\$328.02	
Balance on hand	97.77	
	<hr/>	425.79

W. D. WALKER
C. N. MARLAND
JOHN C. ANGUS

Trustees

PUNCHARD FREE SCHOOL

REV. CHARLES W. HENRY, *President*

HARRY H. NOYES, *Treasurer*

REV. E. VICTOR BIGELÓW MYRON E. GUTTERSON

REV. NEWMAN MATTHEWS FREDERIC S. BOUTWELL

REPORT OF TREASURER

PRINCIPAL FUND

January 1, 1920

Cash in banks	\$ 4303.42	
Real estate, mortgages and bonds	72150.86	
Transferred from income account	200.00	
	<hr/>	\$76654.28

December 31, 1920

Cash in Banks	7677.16	
Real Estate, Mortgages and Bonds	68977.12	
	<hr/>	76654.28

January 1, 1920

Cash in banks	4303.42	
Mortgages paid during year	10156.76	
Transferred from income account	200.00	
	<hr/>	14660.18

December 31, 1920

Cash in banks	7677.16	
Invested in new mortgages and bonds	6983.02	
	<hr/>	14660.18

INCOME

January 1, 1920

Cash in bank	1808.67	
Interest	4206.98	
	<hr/>	6015.65

EXPENDITURES

N. C. Hamblin, Principal	800.00
Edna S. Bennett, instructor	918.66
Marjorie W. Faunce, instructor	130.00
Helen M. Dunn, instructor	1383.66
Hazel Underwood, instructor	480.00
Ruth R. Hamblin, instructor	9.00
City of Boston	4.50
Smart & Flagg, insurance	10.00
Rogers & Angus, insurance	25.00
	<hr/>

Amount carried forward \$3760.82

<i>Amount brought forward</i>	\$3760.82	
Andover National Bank, box rent	5.00	
Andover National Bank, int. on bonds	55.54	
J. H. Playdon, flowers	30.00	
Colver J. Stone, legal services	11.00	
Harry H. Noyes, treasurer	200.00	
N. C. Hamblin, travel	15.95	
Expenses, travel, postage, stat'y, etc.	22.84	
City of Boston, taxes	52.96	
Transferred to principal account	200.00	
Cash in bank	1661.54	
	<hr/>	\$6015.65

BARNARD FUND

January 1, 1920		
Cash in bank	25.50	
Dividends	40.00	
	<hr/>	65.50
Prizes awarded		
First	20.00	
Second	12.00	
Third	8.00	
December 31st Cash in Bank	25.50	
	<hr/>	65.50

DRAPER FUND

January 1, 1920		
Cash in bank	1334.70	
Dividends	67.55	
	<hr/>	1402.25

GOLDSMITH FUND

January 1, 1920		
Cash in bank	267.33	
Dividends	12.99	
	<hr/>	280.32
Prizes awarded		
Girls' prizes — January and December	10.00	
Boys' prizes — January and December	10.00	
December 31st Cash in bank	260.32	
	<hr/>	280.32

HARRY H. NOYES, *Treasurer*

REPORT OF COMMITTEE ON TOWN FARM

At the annual town meeting in 1919 a committee was appointed to consider what disposition should be made of the property known as the Andover Town Farm, or what changes might wisely be recommended in the management of the same. The Chairman of the Board of Selectmen was a member of that committee, and his death occurring during the year made it wise that action should be deferred until the vacancy was filled. The committee was therefore continued subject to the filling of the vacancy caused by the death of Mr. Eames. Following the meeting of 1920 the vacancy was filled by the appointment of Walter S. Donald, Chairman, Board of Selectmen. The committee has given careful consideration to the subject, first considering the importance of continuing the maintenance of a town home as an exclusive Andover institution and second, as to the better procedure to be followed in using the present property.

While the number of inmates is constantly changing, and had for some time remained at a low figure, recent depressed conditions have resulted in adding to the number, so that it is pretty definitely determined that accommodations must be made for the poor of the town, that will provide for not less than twenty persons. Considering the proposition of combining with a neighboring town for the maintenance of a joint institution, the committee believes this unwise, irrespective of the possible saving of money that might follow such a combination. Joint operation would undoubtedly be accompanied by friction between the over-seeing factors, and consequent unsatisfactory conditions for the inmates. The committee therefore expresses the unanimous opinion that the town must continue to maintain and operate a town house for the poor of Andover.

Considering the matter of selling the present plant, embracing 31½ acres, and the various buildings well known to the people of

the town, it would undoubtedly be to the advantage of the town if a more compact and modern building could be constructed entirely apart from any farming activities for such service as the town home should provide. To construct such a building at the present time would involve the expenditure of a sum of money much in excess of any amount that has been suggested as the probable payment the town would receive if the present property were sold. The committee believes, therefore, that it is not wise at the present time to dispose of the town farm in its entirety.

Considering the main building as a building capable of improvement for use as a home, apart from farm activities, it would be possible to spend an amount of approximately \$12000 to \$15000 in remodelling the present main building for an institution that would care for the needs of the town for some time to come. Such remodelling should provide for removing all the outbuildings except those absolutely necessary for service to the main building itself, and arranging streets and driveways so that the main building may have a proper setting. After such an arrangement had been made it would be possible to sell the larger part of the land for a price that would undoubtedly care for all the improvements that would be required to make the plant thus remodelled an efficient and satisfactory home.

The committee recommends that the Selectmen be authorized to offer for sale at public sale all of the surplus land not needed for such improvement as has been suggested, and that they be authorized to expend out of the amount secured from the sale, such money as may be necessary to satisfactorily remodel and improve the present main town farm building.

Respectfully submitted,

JOHN N. COLE, *Chairman*
FRANK A. BUTTRICK
WALTER S. DONALD

TOWN WARRANT

THE COMMONWEALTH OF MASSACHUSETTS

ESSEX, ss.: To either of the Constables of the Town of Andover: GREETING.

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in town affairs to meet and assemble at the Town House, in said Andover, on MONDAY, the SEVENTH DAY OF MARCH, 1921, at 6 o'clock a.m., to act on the following articles:

Article 1. — To choose a Moderator for one year, Town Clerk for one year, Treasurer for one year, Collector of Taxes for one year, one member of the Board of Selectmen for three years, one member of the Board of Assessors for three years, three members of the School Committee for three years, two members of the Board of Public Works for three years, one member of the Board of Health for three years, three Auditors of Accounts for one year, three Constables for one year, one Trustee of Memorial Hall Library for seven years, one Tree Warden for one year, one Trustee of Cornell Fund for three years, two Trustees of Punchard Free School for one year, and any other officers the town may determine to choose.

Article 2. — To take action on the following question, Shall licenses be granted for the sale of certain non-intoxicating beverages in this town?

Article 3. — To determine what sums of money shall be appropriated for Almshouse Expenses, Repairs on Almshouse, Relief out of Almshouse, Aiding Mothers with Dependent Children, Board of Health, Brush Fires, Fire Department, Hay Scales,

Highway Department, Insurance, Interest, Memorial Hall Library, Memorial Day, Post 99, G. A. R., Miscellaneous, Parks and Playsteads, Police, Printing and Stationery, Public Dump, Retirement of Veterans, Redemption of Water, Sewer, and High School Bonds, Schools, Sewer Maintenance, Sewer Sinking Funds, Soldiers' Relief, Spring Grove Cemetery, State Aid, Street Lighting, Town Officers, Town House, Tree Warden, Moth Department, Water Maintenance, Construction and Sinking Funds, and other town charges and expenses.

✓ Article 4. — To see if the Town will vote to build a main sewer on Poor Street and North Main Street, a distance of about 1800 feet, and appropriate the sum of \$3500 for same. Work to be done under the direction of the Board of Public Works, and to assess betterments upon the estates benefited by said extension, on petition of Carl L. Svenson and others.

✓ Article 5. — To see if the Town will vote to build a sewer from Main Street, westerly through Lowell Street as far as the house of Richard Ward, and appropriate a sum of money therefor, on petition of Walter M. Lamont and others.

✓ Article 6. — To see if the Town will vote to build a sewer through Haverhill Street from the present sewer at the intersection of York Street, easterly for a distance of about 2300 feet to a point at or near Stirling Street, and appropriate a sum of money therefor on petition of John Traynor and others.

✓ Article 7. — To see if the town will accept and adopt as a part of its sewage system, certain sewers constructed in Shawsheen Village, so called, as follows: — A ten inch sewer on Haverhill Street extending from the Main Sewer west of the Haverhill Street bridge to the centre of York Street and an eight inch sewer on North Main Street starting at a point at or near the property of Dr. George B. Elliott and running southerly along North Main Street and connecting with the Main sewer; also when completed the sewage pumping station at Shawsheen Village and the 12 inch main extending to the filter beds.

Article 8. — To see if the Town will authorize the Board of Public Works to make investigations and report at the next An-

nual Meeting on a system of sewage disposal and appropriate the sum of one thousand dollars to defray the expenses of such investigation, on petition of the Board of Public Works.

Article 9. — To see if the Town will authorize the Board of Public Works to expend the amount of money now in the treasury to the credit of the Water Loan for the purpose of relaying pipes and making small extensions, on petition of the Board of Public Works.

Article 10. — To see if the Town will authorize the Board of Public Works to extend the water main from the residence of Charles G. E. Anderson, Ballardvale Road, to Edward Dimmock, and appropriate a sum of money therefor, on petition of Charles G. E. Anderson and others.

Article 11. — To see if the Town will appropriate a sum not exceeding \$5000, to complete the macadam on Lowell Street; the same to equal an amount which the State and County will severally appropriate, on petition of the Board of Public Works.

Article 12. — To hear and act on the report of the committee appointed to consider the sale of the Andover Town Farm, or change in method of operating the same.

Article 13. — To hear and act upon the report of the committee appointed to consider the question of a suitable memorial to citizens of Andover who served in the World War, the questions for consideration to be as follows:

(a) Will the town approve the recommendation that the said memorial shall take the form of a new civic centre on the land bounded by Main Street, Chestnut Street, Bartlet Street and Punchard Avenue ?

(b) Will the town authorize the Selectmen to petition the General Court for authority to appropriate, outside of the debt limit now authorized by law, a sum of money not exceeding \$300,000, to be used for the purpose of acquiring and improving said area, and the erection of such buildings as shall be authorized ?

(c) Will the town authorize the appointment of a committee of seven citizens to be known as a "Committee on War Memorial and Civic Centre," to make a study of all conditions involved in a proper development of such a civic centre, prepare plans for a beginning of the undertaking, to include the immediate construction of a new town building, designed to be later supplemented by such other development as the town may from time to time authorize, and to further consider and act upon any matters relating to the question?

Article 14. — To hear and act on the report of the Board of Public Works as to its conclusions and recommendations on the status of the Water Department, covering the question of rates, charges for fire service and other public services, and the advisability of having this Department operated as a self-supporting Department.

✓ Article 15. — To see if the town will accept as a town way, as laid out by the Selectmen, the street now known as Warwick Street in Shawsheen Village, so called, running from a point on North Main Street northerly about eleven hundred (1100) feet from the Post Office and westerly to Poor Street, on petition of William M. Wood and others.

✓ Article 16. — To see if the town will accept as a town way, as laid out by the Selectmen, the street now known as Windsor Street in Shawsheen Village, so called, running from a point on North Main Street northerly about seven hundred (700) feet from the Post Office and westerly to Poor Street, opposite the residence of Henry Todd, on petition of William M. Wood and others.

Article 17. — To see if the Town will accept as a town way, as laid out by the Selectmen, the street known as Canterbury Street in Shawsheen Village, so called, from a point south of 59 Lowell Street, westerly six hundred (600) feet to an open lot, on petition of William M. Wood and others.

Article 18. — To see if the town will accept as a town way, as laid out by the Selectmen, the street known as Balmoral Street in Shawsheen Village, so called, from a point on North Main Street about five hundred (500) feet southerly from the Post Office to Burnham Road, on petition of William M. Wood and others.

Article 19. — To see whether the Town will vote to instruct the Selectmen to release a certain right of way for the maintenance of drainage pipes over the premises of Albert L. Hall and Clyde A. White, located on the northerly side of Park Street, in said Andover, upon such terms and conditions as may be acceptable to the Board of Selectmen and to the Board of Public Works, on petition of Albert L. Hall and others.

Article 20. — To see if the Town will appropriate the sum of \$2000, to place fire escapes on and otherwise put in a suitable condition the Old Schoolhouse building in Ballardvale to comply with the regulations and orders of the Building Inspectors' Department of the State Police.

Article 21. — To see if the Town will appropriate the sum of \$6000 for tearing down and reconstructing the tomb in Spring Grove Cemetery, on petition of the Board of Trustees.

Article 22. — To see if the Town will authorize the Selectmen to dispose of the Steam Fire Engine now located in the Central Fire Station.

Article 23. — To see if the Town will appropriate a sum of money to place an electric light on Salem Street between Prospect Hill Road and the Woodbridge Cider Mill, on petition of Ernest A. Braddon and others.

Article 24. — To see if the town will appropriate a sum of money for an electric light in front of the Tyer Rubber Company, on petition of Dionisio Michellini and others.

Article 25. — To see if the Town will appropriate a sum of money to place a fire alarm box at or near the junction of Salem

Street and Prospect Hill Road, on petition of Ernest A. Braddon and others.

Article 26. — To see if the town will accept the provisions of General Laws, Chapter 94, Section 120, as follows: —

“In towns having less than ten thousand inhabitants which accept this Section or have accepted corresponding provisions of earlier laws at any Annual Town Meeting, the annual license fee for carrying on the business of slaughtering neat cattle, sheep or swine shall be such sum not exceeding one hundred dollars as the selectmen fix, on petition of the Board of Health.”

Article 27. — To see if the Town will name as Chestnut Lane the town way leading from River Road at a point east of the Shattuck Farm past the property of Jane Devlin.

Article 28. — To see what action the Town will take in regard to a certain fund left by the late Anna Holt for the benefit of the Scotland District School and held in trust by Brooks F. Holt.

Article 29. — To see if the Town will accept as a gift from the late Edward R. Lemon, a native of Andover, an oil painting of “Washington at Monmouth” and a bust of Longfellow.

Article 30. — To fix the pay of the call firemen for the ensuing year.

Article 31. — To determine the method of collecting the taxes for the ensuing year.

Article 32. — To authorize the Town Treasurer to hire money for the use of the town in anticipation of the revenue of the current financial year, with the approval of the Selectmen.

Article 33. — To determine what disposition shall be made of unexpended appropriations.

Article 34. — To act upon the report of the Town Officers.

Article 35. — To determine the amount of money to be raised by taxation the ensuing year.

Article 36. — To transact any other business that may legally come before the meeting.

The polls will be open from 6 o'clock a.m. to 5 o'clock p.m.

And you are directed to serve this warrant by posting attested copies and publication thereof, seven days at least before the time of said meeting as directed by the By-Laws of the town.

Hereof fail not and make return of this warrant with your doings thereon, at the time and place of said meeting.

Given under our hands this twenty-third day of February, A.D. 1921.

WALTER S. DONALD
CHARLES BOWMAN
ANDREW McTERNEN

Selectmen of Andover

RECOMMENDATIONS OF FINANCE COMMITTEE

The Finance Committee appointed by the moderator at the Town Meeting last March comprised the following: George Abbot, Henry A. Bodwell, John H. Champion, William B. Corliss, E. V. French, George B. Frost and Chester W. Holland. The Committee organized with Mr. Bodwell Chairman and Mr. French Secretary. During the year Mr. Frost and Mr. Corliss resigned and the Committee selected George L. Averill and John C. Angus to fill the vacancies. Eight meetings have been held to consider the matters which are to come before the Town at the March Meeting and conferences have been held with the officials of every town department.

The Committee has given careful consideration to the budgets prepared by the various town departments and has examined in detail the appropriations requested; the results of this examination are embodied in the recommendations presented herewith.

The cost of maintaining the different town departments increases yearly and there is little prospect that the coming years will see anything other than steady increase in expense of maintenance and administration. However, the situation warrants that the Finance Committee should make an examination during the coming year to the end that the citizens may be advised in accurate detail of the exact condition of affairs in every town department. As a result of such an examination it is the confident expectation of the present Finance Committee, that many changes will suggest themselves, which, if adopted, will make for a saving in money and an increased efficiency in operation.

RECOMMENDATIONS

Almshouse	\$5000.00
Almshouse repairs	300.00
Almshouse relief out	4000.00
Aiding Mothers with dependent children	2500.00
Board of Health	3000.00
Brush Fires	600.00
Fire Department	23000.00

(This amount will cover \$835.90 already spent in Shawsheen Village in putting fire alarm wires underground and provides \$1000 for renewing in other parts of the town overhead wires which are rusting out. About one-half the total cost of the department is due to wages of the permanent men in part made necessary by the two-platoon system. No immediate change is possible but the Committee recommends consideration at once of such changes in the present methods of operating the Department as may be found possible after careful study, and believes that it will probably be feasible to maintain a thoroughly efficient department at an appreciable saving in cost.

Hay Scales	125.00
Highway Department	
Maintenance	30000.00
New Construction	30000.00

(The general plan of new construction proposed by the Board of Public Works a year ago and approved, was of necessity changed on account of the assumption of the larger part of the Main Street work by the State and on account of the agreement between the State, the County and the Town to finish Lowell Street at an earlier date than originally planned. The Board of Public Works propose in 1921 to do new con-

<i>Amount carried forward</i>	\$98525.00
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Amount brought forward

\$98525.00

struction work on the following streets: Andover Street to Ballardvale, Lowell Street, Summer Street, Abbot Street, Phillips Street, Pearson Street and ashes on country roads. This work will be done in the order found most advantageous and only about three-fifths of it can be finished this year. The rebuilding of Main Street from Chapel Avenue to the Square will have to be still deferred until the street railroad company is in a position to do the track work necessary. In the meantime, it is stated that the street can be kept in fairly good condition by a moderate outlay for repairs.)

Fire Insurance	3000.00
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(This increase of \$1000 over the appropriation of last year provides for increased coverage in accordance with the new appraisal which has been made of all town property.)

Workmen's Compensation	2500.00
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Interest	17500.00
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Library	3000.00
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Memorial Day	600.00
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(The increased cost of music, flowers, conveyances and all the other items entering into the Memorial Day observance makes necessary a larger appropriation than has been made in past years.

G. A. R.	100.00
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Miscellaneous	3000.00
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Parks and Playsteads	1200.00
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Police	9000.00
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(One new officer who shall act as a night watchman in Shawsheen Village is provided for in this appropriation as recommended.)

Printing and Stationery	1800.00
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Amount carried forward

\$140225.00

<i>Amount brought forward</i>	\$140225.00
Public Dump	75.00
Retirement of Veterans	300.00
Retirement of Bonds	
Water	8000.00
Punchard School	6000.00
Sewer	6141.78
Schools	101000.00
(This is the gross expenditure recommended for the school department. Against this there are certain credits which if placed to the credit of the School Department would make the net cost approximately \$94,000. The recommendation of the Finance Committee does not include the sum requested by the School Department for the employment of a physical training teacher.)	
Sewer Department	
Labor and Power	3000.00
Sinking Fund	1000.00
Soldiers' Relief	1500.00
Spring Grove Cemetery	1500.00
	(and receipts)
State Aid	1000.00
Street Lighting	7900.00
(The Lighting Committee plans for various changes in the street lighting arrangements and also increased lighting in several sections. The Finance Committee recommends that the congested sections of the town be adequately provided for and that uniformity of lighting over the town should be the aim in the plans of the Lighting Committee.)	
Town Officers	8900.00
(This is a slight increase over last year, recommended in order to increase the pay of the auditors from \$75.00 to \$100.00 a year.)	
<i>Amount carried forward</i>	\$286541.78

Amount brought forward

\$286541.78

Town House

3000.00

Tree Warden and Moth Work

7000.00

(The Town is required by the State to spend this year \$4000 for moth work. It is found that the growth of brush along the roadsides is getting ahead of the cutting, necessitating an increase from \$1000 to \$3000 for this work. This roadside cutting and other care of trees in the town is exclusively in the charge of the tree warden, who is elected by the voters of the town. The moth work is in charge of a superintendent appointed by the selectmen. The control of moths and the work on the trees are so related that the tree warden and moth superintendent should be the same man and this is now the arrangement in Andover. It is believed that both these lines of work have somewhat outgrown the earlier conditions, and that they are in part so allied with the Highway Department of the Board of Public Works that a closer connection between the two should be made if possible, thus permitting the use of the Highway equipment wherever available and insuring the care of all tools by a permanent department having proper means for storage and repair work.)

Water Department

20750.00

(It is advised that the method of handling the Water Department recommended by the special committee be adopted and this will make unnecessary after this year an appropriation for the retirement of bonds, sinking fund, interest, maintenance and construction, and will cover all requirements by a single appropriation.)

\$317291.78

The Finance Committee respectfully recommends the following action in reference to the articles in the warrant:—
Article 4. Approved.

Article 5. Approved.

Article 6. Approved.

(It is recommended that the town issue bonds in the necessary amount to cover the construction of sewers called for in these three articles; but it is further recommended that the Board of Public Works defer until another year, such part of this work as may advantageously be postponed in view of the prospect of lowered costs.)

Article 7. Approved.

Article 8. Approved.

Article 9. Approved.

(It is recommended that no part of this sum be used for any considerable extension work until such has been approved by the town.)

Article 10. Not approved.

(The cost of this water extension is estimated about \$1200.00 and the line will furnish water for one house. The revenue from this extension and the prospective development of the section does not in the opinion of the Finance Committee warrant the cost.)

Article 11. Approved.

Article 12. The plan incorporated in the report of the committee which has investigated the Town Farm situation is approved by the Finance Committee.

Article 13. No final action recommended at this time.

(The Committee appointed to consider this matter at the Annual Town meeting a year ago recommend the adoption of the general plan then described and action providing for the issuing of \$300000 in bonds. The Finance Committee appreciate the advantage to a community which may come through a broad vision as to the probable future needs

and from the preparation of a comprehensive far-sighted plan in accord with which developments may be made to the end that the final result may be a complete work best fitting the conditions and the needs of the community. The information presented to the Finance Committee, however, was not sufficiently detailed and comprehensive to make it possible at this time to judge reasonably of the ultimate cost, or of the wisdom of proceeding in exactly these lines. It is, therefore, recommended that no definite action be taken other than to provide for the continuation of a committee to study the matter further and report on all details with definite estimates and full working out of the preliminaries so that the final result may be estimated with approximate accuracy.)

Article 14. Approved.

Article 15. Approved.

Article 16. Approved.

Article 17. Approved.

Article 18. Approved.

(Articles 15, 16, 17 and 18 refer to petitions for acceptance by the Town of certain streets in Shawsheen Village. Three of these streets are completed and the fourth, namely Balmoral street, named in Article 18, will be completed by private individuals without cost to the Town. The acceptance of Balmoral street includes acceptance of the bridge passing over the Shawsheen river at this point.

Article 19. It is suggested that the interested parties work out some plan with the Selectmen and Board of Public Works which will conserve the purposes for which the Town acquired the easement referred to in this article. This should involve no cost to the Town.

Article 20. Approved.

Article 21. Not approved.

(The Finance Committee recommends that further plans and specifications be presented in reference to this proposed expenditure.)

Article 22. Approved.

Article 23. Referred to Lighting Committee.

Article 24. Referred to Lighting Committee.

Article 25. Referred to Selectmen.

Article 26. Approved.

Article 27. No action required of Finance Committee.

Article 28. No action required of Finance Committee.

Article 29. No action required of Finance Committee.

Article 30. It is the recommendation of the Finance Committee that the call Firemen in Ballardvale be paid \$75.00 each per year and the call firemen in the Center be paid \$150.00 each yearly. This seems a reasonable adjustment of pay in view of the number of alarms answered by each department.

Articles 31 to 35 inclusive, do not require action on the part of the Finance Committee.

SUMMARY

Department appropriations recommended		\$317291.78
Special appropriations recommended		8000.00
		<hr/>
		\$325291.78
State Tax (estimated)	\$35000.00	
County Tax (estimated)	16000.00	
	<hr/>	51000.00
		<hr/>
		\$376291.78

RESOURCES

Cash	\$22100.00
Corporation and Bank tax (estimated)	30000.00
State Aid	" 600.00
Outside relief	" 1600.00
Water rates	" 26500.00
Sundries	" 1700.00
From State for Schools	" 7500.00
Income tax	" 25000.00
	<hr/> \$115000.00
Total to be raised from Andover Taxes	<hr/> \$261291.78

VALUATION

	1919	1920	1921 (est.)
Personal	\$ 184835.00	\$ 2042541.00	\$ 2042541.00
Real Estate	6639050.00	8044225.00	8344225.00
	<hr/> \$8487400.00	<hr/> \$10086766.00	<hr/> \$10386766.00

Computation of tax rate using these figures.

$$\frac{\$261291}{\$10386788} \cdot \cdot \cdot \$25.15$$

Respectfully submitted,

HENRY A. BODWELL, *Chairman*
 GEORGE ABBOT
 GEORGE L. AVERILL
 JOHN H. CAMPION
 E. V. FRENCH
 C. W. HOLLAND
 JOHN C. ANGUS, *Secretary*

Finance Committee.

TRUSTEES OF MEMORIAL HALL LIBRARY

E. KENDALL JENKINS	ALFRED E. STEARNS
FREDERIC S. BOUTWELL	BURTON S. FLAGG
CHARLES U. BELL	NATHAN C. HAMBLIN
FREDERICK A. WILSON	

President

E. KENDALL JENKINS

Secretary and Treasurer

FREDERIC S. BOUTWELL

Librarian

EDNA A. BROWN

Assistants

JULIA E. TWICHELL

EDITH DONALD

In Charge of Ballardvale Branch

MARTHA D. BYINGTON

Janitor

ROBERT DEYERMOND

MEMORIAL HALL LIBRARY

FORTY-EIGHTH ANNUAL REPORT OF THE BOARD OF TRUSTEES

The Trustees of the Memorial Hall Library herewith submit their report for the year 1920:

Any extended statement from them is rendered unnecessary by the full and suggestive reports of the Librarian and of the Treasurer, which all the citizens are urged to read.

The large increase in the circulation of the books of the library and in the use for reference give evidence of its growing importance as an educating influence in our midst.

Its value to the community depends not merely upon the number and quality of its books but also upon the wise use of them. The lectures given by the Librarian to High School pupils upon the use of reference books and upon the classification of books are proving of much value, especially to those who become teachers.

Worthy of special note is the gift to the library of more than one hundred volumes which have been used in army camps at home and abroad. They deal chiefly with technical subjects such as farming, the care of animals, chemistry, engineering, rubber working and business, and many of our citizens are finding them helpful in their occupations.

The generous donation of books from one of our fellow-townsmen, mentioned in the Librarian's report, may well be imitated by others who reduce their libraries or change their residence.

The recent death of Rev. Francis H. Johnson recalls to our minds the long period of service which he gave as a Trustee of the Library, dating from its beginning in 1872 to 1909.

An active and influential member of the Board during the formative period of the Library, his activities and influence found

their culmination in the Cornell Art Gallery, the entire contents of which were purchased by him during his travels in this country and abroad. Upon the completion of this duty he resigned from the Board.

The Library was fortunate in having such a man on its Board of Trustees at two important periods in its history.

The "high cost of living" inevitably affects libraries, as is seen in the advancing price of books and in the necessary increase of salaries.

It is hoped that the town will show its appreciation of the library by a no less generous appropriation for its needs in 1921 than it voted last year.

E. KENDALL JENKINS

Chairman

NATHAN C. HAMBLIN

CHARLES U. BELL

ALFRED E. STEARNS

BURTON S. FLAGG

FREDERICK A. WILSON

FREDERIC S. BOUTWELL

TRUSTEES OF MEMORIAL HALL LIBRARY

In account with the Town of Andover, Mass.

RECEIPTS

Balance from last year	\$2001.22
Town Appropriation	3000 00
Dog Tax	504.14
Income from Investments	3299.73
Fines	199.27
Cash paid for lost books	20.40
Gifts for books and periodicals	26.50
	<hr/>
Total	\$9051.26

EXPENDITURES

Salaries	\$4343.00
Lighting and Heating	639.44
Periodicals	206.45
Bookbinding	275.29
Books	715.33
Insurance	126.99
Office Expenses	92.99
Sundry Items	217.19
Cash on hand	2434.58
	<hr/>
Total	\$9051.26

Classification of Income and Expenditures for the year 1920

INCOME

	<i>Maint.</i>	<i>Book</i>	<i>Cornell</i>	<i>Total</i>
Income from Investments	\$2126.59	\$827.64	\$345.50	\$3299.73
Town Appropriation	3000.00			3000.00
Dog Tax	504.14			504.14
Cash for lost books		20.40		20.40
Fines	199.27			199.27
Gifts	6.50	20.00		26.50
Total	<u>\$5836.50</u>	<u>\$868.04</u>	<u>\$345.50</u>	<u>\$7050.04</u>

EXPENDITURES

Salaries	\$4240.86		\$102.14	\$4343.00
Lighting and Heating	539.44		100.00	639.44
Periodicals	206.45			206.45
Bookbinding	275.29			275.29
Books		715.33		715.33
Insurance	126.99			126.99
Office Expenses	92.99			92.99
Sundry Items	217.19			217.19
Total	<u>\$5699.21</u>	<u>\$715.33</u>	<u>\$202.14</u>	<u>\$6616.68</u>
Unexpended balances	137.29	152.71	143.36	433.36

Condition of Funds and Unexpended Income Jan., 1920

	<i>Funds</i>	<i>Income</i>
Maintenance Fund	\$46600.00	\$ 8.51
Book Funds	17400.00	1164.00
Cornell Fund (Permanent)	5000.00	425.63
Cornell Fund (Purchase)	4148.45	630.35
Special		64.94
Total income on hand		<u>2293.43</u>
Principal cash on hand		141.15
Total cash on hand		<u>\$2434.58</u>
Total Funds	\$73148.45	

INVESTMENTS

Bangor & Aroostook R. R. 4s	\$11000.00
Boston Elevated Ry. Co., 4s	10000.00
Boston Elevated Ry. Co., 4½s	1000.00
Chicago Railway Co., 5s	9962.50
Montreal Tramways Co., 5s	9962.50
Michigan State Tel. Co., 5s	4981.25
Boston & Albany Equip. Trusts, 4½s	2981.10
Boston & Maine R. R., 4s	2000.00
Pacific Tel. & Tel. Co., 5s	1000.00
American Tel. & Tel. Co., stock, 4s	571.50
Savings Banks	15548.45
Mortgage on Real Estate	4000 00
Principal Cash	141.15
	<hr/>
Total	\$73148.45

FREDERIC S. BOUTWELL, *Treas.*

January 31, 1921

We certify that we have examined and found correct the above statement as of January 18, 1921, whereby all securities held against the several funds have been examined and the income accruing from same accounted for.

All disbursements are supported by receipts in proper form and the cash has been verified and found correct.

BURTON S. FLAGG
CHARLES U. BELL

Auditors

January 31, 1921

REPORT OF THE LIBRARIAN

JANUARY 12, 1921

To the Trustees of the Memorial Hall Library:

GENTLEMEN:

I herewith submit the report of the library for the twelve months ending December 31, 1920.

Our circulation during this period has been the largest in the history of the library. At the Memorial Hall 37952 books were issued, an increase over 1919 of 1937 volumes. At Ballardvale, 6445 were issued, an increase of 139 during the year. This makes a total of 44398 books borrowed for home use during 1920, which is a large circulation for a town the size of Andover. In 1919, 42322 volumes were borrowed.

Not only the number of books borrowed has increased, but the amount of reference work done. During November and December the demands on the library were especially heavy. It has frequently been impossible for one person to answer questions, give the children proper supervision and assistance and at the same time attend to the loan desk. Extra help has been needed during the evenings and will be necessary for some weeks to come. A very large number of upper grade and high school pupils use the library as a place for quiet study and for help in preparing their lessons. The children now growing up have learned that the library is the source of information upon any subject and they make most gratifying use of its volumes.

During the early fall the usual lectures were given to the high school sophomores on the use of reference books and the classification of the library. These lectures always result in increased interest in the books spoken of and in personal efforts to use them individually. There are young people now teaching in other

towns who yet turn to this library for help. We have received more than one request from girls who in the past attended our reference lectures, for help in making out reading lists for their pupils in towns where library facilities are less accessible than in Andover.

The progress of the year has been marked by our usual timely and interesting bulletins. These lists are always helpful to teachers and children in search of material for special occasions, and, as is always the case, we have furnished books for use in many of the parties and entertainments, both public and private. Just now there is a great interest in amateur acting, and we have bought a number of books of simple plays, many of which are adapted to use by children.

The prices of books this year were so increased as to cut down the number it was possible to buy from a fund that did not keep pace with the mounting cost. The outlook for the coming season is not encouraging, since many publishers are announcing even more marked increases. Much of the current fiction is priced at \$2.25 or \$2.50, and it remains to be seen whether this increase, which scarcely seems justified, can be maintained in the face of falling prices in other lines of business. It is a serious matter for the libraries, which are suffering from the necessity of considering with double care every proposed purchase.

One of the greatest inconveniences resulting from the shortage of paper, the high cost of making books, etc., has been that very many desirable publications, especially of a technical nature, have gone out of print. It is no longer possible for a publisher to re-issue a small edition of a book in response to a limited number of demands for copies; he must be assured of a sale of several thousands in order to repay the cost of reprinting, and as a result, it has become exceedingly difficult to obtain certain books. As is always our custom, the library has tried to provide for the local clubs the books needed for study during the winter, and to the dismay of both the club members and the librarian, it has proved a matter of extreme difficulty to secure some of the books most wanted. In a few cases we have been able to borrow temporarily from other libraries, but in some instances, the club has been forced to change its programme. It is to be hoped that this condition may soon be bettered.

Fortunately, the library has had an unusual number of gifts. Rev. Frank R. Shipman contributed about seventy-five volumes, both fiction and non-fiction, all of which were of use in either the main library or at Ballardvale. The most important gift of the year includes over one hundred books on business and technical subjects, which came to the library through the distribution of books used in the army camps at home and abroad. Through the good offices of the American Library Association, these books were sent to some of the central large libraries and then given to local libraries in the vicinity. Those which came to Andover were distributed by the Haverhill Public Library, whose librarian, Mr. John G. Moulton, asked all librarians in the neighborhood to inspect the books and to choose those which would be of value in their communities. To Andover came books on chemistry and rubber working, farming, fruit raising and care of animals, business manuals of varying kinds, and a number of books on automobiles and engineering, all of which have had constant and appreciative use. These books filled a real need, a need which had arisen for several reasons, one being that the returned service men had learned the use of a library, and become accustomed to go to it for help.

Not only has the initial cost of books increased enormously, but the price of rebinding them has actually doubled, due to shortage of material and of labor. All books which receive steady use arrive at the point where they must be put into new covers if they are to circulate longer. Our binding bills have mounted up greatly during the year, for it is inevitable that with a larger use of the library, an increased number of books have to be rebound or replaced. Only a library with a small circulation can keep its binding bills at a minimum.

Our shelves are yet in a crowded condition, although the congestion has been relieved in part by the careful sifting of the classes relating to science, religion, useful arts and economics, and by the withdrawal of books which have had their day and ceased to be of use, unless from an historical standpoint. We try to keep no dead wood upon our shelves, — only books which are useful. Mere hoarding of books, increasing yearly the number of volumes, does not seem to us to mark the value of a library. It is rather

the use which can be made of our books, and we want them to be such that people can use them. Not long ago, a stranger came and asked for a copy of Wordsworth's poems, stating that in a neighboring library the only edition offered her was that of 1798! The library was fortunate in possessing that especial edition, but it was not of much practical use. Being so near Boston, where the large libraries collect and keep all publications which will later be of historical worth, we have felt that our best service to the community will be rendered by earnest effort to keep our shelves up-to-date, and by discarding books which passing years have robbed of value.

In October, the library sustained a loss in the death of its janitor, Ray Dearborn. During the trying days of 1918, when so few men were available, Mr. Dearborn, who, though of military age, was physically incapacitated for active service, came to us with the quiet statement that he would try to do his bit by helping us. His work was done under conditions of increasing ill-health, culminating in a sudden death. We are indebted to him for bridging over a very difficult period.

There is not likely to be any drop in the cost of administering the library during the year to come. The very fact that it has been used so much and shows the largest circulation in its history, only emphasizes the need of a generous appropriation to meet its legitimate expenses and to make it possible for it to do its proper work in the town.

Respectfully submitted,

EDNA A. BROWN

Librarian

STATISTICS OF THE LIBRARY

Number of books issued for home use at the Memorial Hall	37953
Number of books issued at Ballardvale	6445
Total	44398
Percentage of fiction circulated	70
Percentage of non-fiction circulated	30
Number of borrowers' cards in use	2314
Books added by purchase	388
Books added by gift	356
Total accessions	744
Books withdrawn, worn out, etc.	602
Total number of books in library	25006
Volumes rebound	257
Volumes bound, periodicals, etc.	64

BALLARDVALE

Number of books issued for home use	6445
Percentage of fiction circulated	80
Percentage of non-fiction circulated	20
Number of cards in use	350
Books added by purchase	73
Books added by gift	49
Total accessions	122
Books now belonging to the branch	1597

Gifts of books and pamphlets are acknowledged from state and government departments, from other libraries, the Andover Village Improvement Society and from the following individuals: Franklin Belcour, Jr., Judge Charles U. Bell, E. J. Brown, M. T. Byington, the Misses Carter, Mrs. J. F. Cogswell, Edward Cook, E. J. David, J. C. Graham, Rev. C. W. Henry, E. F. Johnson, Mrs. Maud Howe, Mrs. Andrew Lawrie, Mrs. E. E. Mitchell, Frank Munsey, Miss Agnes Park, Mrs. George Ripley, George B. Ripley, Rev. F. R. Shipman, Mrs. Peter D. Smith, James Stewart, F. D. Stickney and Dr. Roger Tracy.

INFORMATION FOR USERS OF THE LIBRARY

The Memorial Hall Library is open every day except Sundays and legal holidays from 9 to 12.30 in the morning, and from 3 to 9 in the afternoon and evening.

Any resident of Andover over ten years of age may have a library card upon filling out an application blank. Children in grades below the Punchard School are required to have their applications endorsed by both parent and teacher.

All grown people are allowed to take any reasonable number of books, provided that only one is a seven-day book. The Punchard pupils are permitted to borrow two, one fiction and one non-fiction.

Books are issued for fourteen days, *the date upon which the book is due* being stamped plainly on the "date due" slip at the time of issue. A book kept overtime incurs a fine of two cents for every day overdue. A few of the books most in demand are issued for seven days only. All these are labeled upon the book pocket, "Seven day book." Books lost or damaged must be paid for.

Seven day books are not renewed or reserved for anyone. Other books may be renewed if no one else has asked for them, and if a work not fiction is specially desired for any serious purpose, notice of its return to the library will be sent on request.

The shelves of the whole library are open to all grown people. The books are arranged according to subjects, and it is often much more satisfactory to go to the shelves and examine the books than to depend upon the catalogue.

The only complete index of the contents of the library is the card catalogue. The printed catalogue of the books was issued many years ago, and is out-of-date, besides containing the names of many books which are no longer in the library. The new books are listed at intervals in the weekly paper, and cumulated in the yearly library report, but the only complete record is the card

catalogue. This catalogue is arranged alphabetically like a dictionary. To find whether any given book is in the library, look for it under the surname of the author, or under its title. The right-hand drawers of the case contain a second arrangement of cards where the books are entered according to the subjects of which they treat.

The new books purchased each month are placed for some weeks in a special case on the north side of the reading room, so that the most recent additions to the library may be found there. The library buys only a limited amount of new fiction, but it tries to fill the wants of the community in regard to other books desired. People are invited to suggest for purchase the titles of books they wish.

The library staff is always glad to answer questions or in any way to help visitors find what they want.

LIST OF PERIODICALS AND NEWSPAPERS TAKEN FOR THE READING ROOM

American monthly review of reviews

Atlantic monthly

Blackwood's magazine

Bookman

Book review digest

Catholic world

Century

Country gentleman

Christian Endeavor world (gift)

Country life in America

Cumulative book index

Etude

Forum

Garden magazine (gift)

Guide to nature (gift)

Harper's magazine

House beautiful (gift)

Independent

India Rubber world (gift)

International studio (gift)
Ladies' home journal
Library journal
Life
Literary digest
Littell's living age
London weekly Times
Missionary review of the world
Nation
National geographic magazine
Nineteenth century
North American review
Outing
Outlook
Popular mechanics
Public libraries
Readers' guide to periodical literature
The Weekly review
St. Nicholas
School arts magazine
Scientific American
Scribner's magazine
Survey
Woman's Home Companion
World's work
Youth's companion
Andover Townsman
Boston Herald
Boston Transcript
Christian Science Monitor
Lawrence Telegram
New York Times

NEW BOOKS ADDED DURING 1920

State and government documents are not listed. Duplicates, replacements and books for the Ballardvale Branch are also omitted.

GENERAL REFERENCE BOOKS

- | | |
|-----------|--|
| 281 H27 | Hastings, James ed. Dictionary of the Apostolic church. 2v. |
| 929 W81 | *Johnson, E. F. Woburn records of births, marriages and deaths, 1699-1890. |
| 603 H62 | Hiscox, G. D. ed. Henley's twentieth century formulas. |
| 929 M927 | *Lowell, D. O. S. Munsey-Hopkins genealogy. |
| 051 S174i | St. Nicholas index. |

PERIODICALS

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|-----------|--|
| 051 R32 | American monthly review of reviews, v. 61. |
| 051 A881 | Atlantic monthly, v. 123-125. |
| 052 B56 | Blackwood's magazine, v. 205-207. |
| 051 B64 | Bookman, v. 49, 50. |
| 051 C33 | Century, v. 98, 99. |
| 051 F77 | Forum, v. 61, 62. |
| 716 G16 | Garden magazine, v. 29. |
| 051 H23 | Harper's magazine, v. 139, 140. |
| 705 H81 | House beautiful, v. 45-47. |
| 051 I38 | Independent, v. 99-101. |
| 705 I61 | International studio, v. 68-70. |
| 020.5 L61 | Library journal, v. 44. |
| 051 L71 | Littell's living age, v. 302-305. |
| 910.5 N21 | National geographic magazine, v. 35-37. |
| 052 N62 | Nineteenth century, v. 85-87. |
| 051 N81 | North American review, v. 210, 211. |
| 051 O94 | Outlook, v. 122-124. |
| 621 P81 | Popular mechanics, v. 32, 33. |
| 020.5 P96 | Public libraries, v. 24. |
| 051 S147 | St. Nicholas, v. 46, pt. 2, 47, pt. 1. |
| 370.5 S35 | School arts magazine, v. 18, 19. |
| 605 S416 | Scientific American, v. 121, 122. |
| 051 S434 | Scribner's magazine, v. 66, 67. |
| 305 S96 | Survey, v. 42. |
| 051 W89 | World's work, v. 38, 39. |

*Gifts

ETHICAL AND RELIGIOUS BOOKS

(Purchased chiefly from the Phillips Fund)

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| 220.9 B15 | Bailey and Kent. History of the Hebrew commonwealth |
| 131 B34 | Baylor, Courtenay. Remaking a man. |
| 150 B46 | *Betts, G. H. The mind and its education. |
| 170 B81 | Brown, C. R. Yale talks. |
| 266 C73 | Committee on the war. Missionary outlook. |
| 220 C84 | *Cragin, L. E. Kindergarten Bible stories. |
| 221 C81o | *Cragin, L. E. Old Testament stories. |
| 133 C84 | *Craig, K. T. Stars of destiny. |
| 134 D77n | Doyle, Sir A. C. The new revelation. |
| 134 D77v | Doyle, Sir A. C. The vital message. |
| 134 D81 | Dresser, H. W. The open vision. |
| 268 E29 | Eggleston, M. W. Use of the story in religious education. |
| 134 F84 | *Frank, Henry. Psychic phenomena. |
| 260 J13 | Jackson, H. E. A community church. |
| 134 K58 | King, Basil. Abolishing of death. |
| 170 M12 | McCall, A. B. The larger vision. |
| 237 M13 | McComb, Samuel. Future life in the light of modern inquiry. |
| 209 M78 | Moore, G. F. History of religions. 2v. |
| 171 P18a | Palmer, G. H. Altruism. |
| 220 P51 | Phelps, W. L. Reading the Bible. |
| 244 S63h | *Slattery, Margaret. Highway to leadership. |
| 266 S74g | Speer, R. E. Gospel and the new world. |
| 150 W33 | Watson, J. B. Psychology from the standpoint of a behaviorist. |
| 268 W42 | *Weigle, L. A. Talks to Sunday-school teachers. |

GENERAL ECONOMICS

- | | |
|-----------|---|
| 332 A26 | *Agger, E. A. Organized banking. |
| 304 B39 | *Beer, G. L. English-speaking peoples. |
| 649 B73 | Brainerd, A. M. Organization of public health nursing. |
| 330 C19 | Carlton, F. T. Elementary economics. |
| 330 C73 | *Coman, Katherine. Industrial history of the U. S. |
| 825 C77 | *Coolidge, Calvin. Have faith in Massachusetts. |
| 331.8 D49 | Devine, E. T. The family and social work. |
| 340 F55 | *Fitch, A. N. New commercial law. |
| 330 F91 | *Friedman, E. M. ed. American problems of reconstruction. |
| 352 G57 | *Gilbert, A. B. American cities. |
| 396 G76 | Grant, Robert. Law and the family. |
| 341.1 H19 | Hansen, Harry. Adventures of the fourteen points. |

- 332 H71 *Holdsworth, J. T. Money and banking.
 330 K52 Keynes, J. M. Economic consequences of the peace.
 331.8 L64 Link, H. C. Employment psychology.
 353.9 L98 *Lyman, G. H. Story of the Massachusetts committee on public safety.
 329 M25 *Macy, Jesse. Party organization and machinery.
 360 M31p Mangold, G. B. Problems of child welfare.
 341 M66 *Minor, R. C. Republic of nations.
 330 O34 *Ogg, F. A. Economic development of modern Europe.
 354 O34 *Ogg, F. A. Governments of Europe.
 329 O85 *Ostrogovski, M. Democracy and the party system.
 353 P69 *Plass, A. A. Civics for Americans in the making.
 332 P88 *Pratt, S. S. Work of Wall street.
 330 R18 *Raper, C. L. Principles of wealth and welfare.
 328 R54r Roberts, H. M. Rules of order.
 332 S42 *Scott, W. A. Money and banking.
 331.8 S59 Simkhovitch, M. K. City worker's world.
 335 S62 *Skelton, O. K. Socialism.
 335 S73p Spargo, John. Psychology of Bolshevism.
 335 S14 *St. Leger, A. Australian socialism.
 330 T37 Thompson, C. M. Elementary economics
 367 W21s Ward, E. J. ed. Social centre.
 327 W76 Wister, Owen. A straight deal.
 825 W85 *Wood, Leonard. National issues.

BOOKS ON EDUCATION

- 173 C54 Clark, T. A. High school boy.
 796 C63 Coale, A. W. Summer in the girls' camp.
 379 C72 *Colvin, S. S. Introduction to High school teaching.
 370 C72 Colvin, S. S. The learning process.
 371.4 G87 Griffith, I. S. Teaching manual and industrial arts.
 371.3 K33 *Kendall and Mirick. How to teach the fundamental subjects.
 379 P22 *Parker, S. C. Methods of teaching in High schools.
 370 R76 Rousseau, J. J. Emile.
 174 W37 *Weaver, D. W. Medicine as a profession.
 371 W85 *Woodley, O. I. Profession of teaching.

BOOKS ON SCIENCE

- 598.2 C36w Chapman, F. M. What bird is that?
 530 H24 Harrow, Benjamin. From Newton to Einstein.
 570 H66 Hodge and Dawson. Civic biology.
 547 H72 *Holleman, A. F. Text-book of organic chemistry.

- 540 K12 *Kahlenberg and Hart. Chemistry and its relations to daily life.
- 580 K24n Keeler, H. L. Our northern autumn.
- 523 L58 Lewis, I. M. Splendors of the sky.
- 540 M13 McCoy and Terry. Introduction to general chemistry.
- 537.8 R43 *Rideal, E. K. Industrial electro-metallurgy.
- 536 S53 *Shealy, E. M. Heat.
- 540 S59 *Simon and Base. Manual of chemistry.
- 660 S63 Slosson, E. E. Creative chemistry.
- 530 S63 Slosson, E. E. Easy lessons in Einstein.
- 547 S64 *Smith, Alexander. Introduction to inorganic chemistry.

FARM AND HOME MANAGEMENT

- 635 B43 Bennett, I. D. Busy woman's garden book.
- 674 B81 Brown, N. C. Forest products.
- 636.5 C63 Cobb, Ernest. The hen at work.
- 636.4 D33 *Day, G. E. Productive swine husbandry.
- 635 G37 *Gilbert, A. W. The potato.
- 636 H39 *Henry and Morrison. Feeds and feeding.
- 613.7 K29 Kelly, J. E. The high road to health.
- 631 K58s *King, F. H. The soil.
- 635 L77 *Lloyd, J. W. Productive vegetable growing.
- 631 L98 *Lyon, T. L. Soils and fertilizers.
- 630 M76 *Montgomery, E. G. Productive farm crops.
- 646 S34 Schmidt, C. L. Garments for girls.
- 634 S43 *Sears, F. C. Productive orcharding.
- 636.7 S55 Sherlock, C. C. Care and management of rabbits.
- 630 W25e *Warren, G. F. Elements of agriculture.
- 630 W25f *Warren, G. F. Farm management.
- 630 W83 *Woll, F. W. Handbook for farmers and dairymen.

BUSINESS HANDBOOKS

- 332.6 A88 Atwood, A. W. Putnam's investment handbook.
- 659 B27 *Barrett, H. J. How to sell more goods.
- 070 B61 *Bleyer, W. G. Newspaper writing and editing.
- 659 C13 *Calkins, E. E. Business of advertising.
- 659 C42 *Cherington, P. T. Advertising as a business force.
- 652 E84 Etheridge, Herbert. Dictionary of type-writing.
- 071 H23 *Harrington, H. F. Essentials in journalism.
- 657 H28 *Hatfield, H. R. Modern accounting.
- 659 H46 *Hess, H. W. Productive advertising.
- 396 H67 Hoerle and Saltzberg. The girl and the job.
- 659 H72 *Hollingworth, H. L. Advertising and selling.
- 658 K55 *Kilduff, E. J. The private secretary.

- 659 M27 *Mahin, J. L. Advertising.
- 653 M38 Mason, W. L. How to become an office stenographer.
- 659 M45 *Maxwell, William. Salesmanship.
- 657 M62 Miner, G. W. Book-keeping.
- 659 N49 *Nystrom, P. H. Retail selling.
- 658 T21 *Taylor, F. W. Principles of scientific management.

MECHANICAL AND USEFUL ARTS

- 677 B79 *Brooks, E. C. Story of cotton.
- 678 C27 *Caspari, W. A. India-rubber laboratory practice.
- 629.1 C31 *Cayard, L. H. Automobile tire handbook.
- 677 C44 *Chittick, James. Silk manufacturing.
- 629.1 F86 Fraser and Jones. Motor vehicles and their engines.
- 621 H13 Hale, J. W. L. Practical mechanics.
- 621 H25 *Hartman, W. B. Machine shop practice.
- 621.1 H31 *Hawkins, N. Handbook of calculations for engineers.
- 621.1 H32 Hawley, Thomas. American steam engines.
- 621.1 H61 *Hirshfeld and Ulbricht. Steam power.
- 629.1 H65 *Hobbs and Elliott. The gasoline automobile.
- 621.1 J23 *James and Dole. Mechanism of steam engines.
- 621 K16 *Kaup, W. J. Machine shop practice.
- 621.1 L96 *Ludy, L. V. Locomotive boilers and engines. 2v.
- 629.1 M31 Manly, H. P. Automobile ignition.
- 621.4 M34 *Marks, L. S. Gas and oil engines.
- 621 N79 *Norris and Craig. Advanced shop mathematics.
- 629.1 O44 Oldfield, Barney. Book for the motorist.
- 629.1 P14m *Pagé, V. W. Modern gasoline automobile.
- 678 P82 *Porritt, B. D. Chemistry of rubber.
- 621.4 R18 *Rathbun, J. B. Gas engine troubles.
- 621.1 R68 *Roper, Stephen. Questions and answers for stationary
and marine engineers.
- 621.3 S47 Sengstock, F. F. Electrician's wiring manual.
- 621.1 W33 *Watson, E. P. How to run engines and boilers.

FINE ARTS

- 745 B31 *Batchelder, E. A. Design in theory and practice.
- 681 B74 *Brearley, H. C. Time telling through the ages.
- 745 C38 *Chase, J. C. Decorative design.
- 759.3 D56 *Dickinson, H. A. German masters of art.
- 735 E14 *Eaton, D. C. Handbook of modern French sculpture.
- 745 F88 *French and Meiklejohn. Essentials of lettering.
- 929.6 H77 *Hope, W. H. Heraldry for craftsmen and designers.
- 759.1 I79 Isham, Samuel. History of American painting.
- 746 K29 Kellogg, Charlotte. Bobbins of Belgium.

- 759.1 K58 King, Pauline. American mural painting.
 780.9 N19 Nathan, M. M. History of Russian music.
 759.5 R35 *Ricci, Corrado. Art in northern Italy.
 710 R67 *Root and Kelley. Design in landscape gardening.
 710 T11 Tabor, Grace. Landscape gardening book.
 759.1 V28 Van Dyke, J. C. American painting and its tradition.
 745 W85 Woodhouse, Thomas. Textile design.

LITERATURE, ESSAYS AND POETRY

- 821 C42b *Chesterton, G. K. Ballad of the White Horse.
 821 C76 Conkling, Hilda. Poems by a little girl.
 824 C88d Crothers, S. M. Dame school of experience.
 808 C92 Curl, M. J. Expository writing.
 822 D83 Drinkwater, John. Abraham Lincoln, a play.
 822 G13b Galsworthy, John. Plays.
 824 G31 Gerould, K. F. Modes and morals.
 822 G46 Glaspell, Susan. Plays.
 824 H89b Huneker, James. Bedouins.
 822 K38a Kennedy, C. R. Army with banners.
 827 L46w Leacock, Stephen. Winsome Winnie.
 821 M37r Masefield, John. Reynard the fox.
 824 M45 Maynard, Theodore. Carven from the laurel tree.
 822.08 M45 Mayorga, M. G. ed. Representative one-act plays by American authors.
 821 M58m Middleton, George. Masks.
 822 O58 O'Neill, E. G. Beyond the horizon.
 824 P22 Park, J. E. Bad results of good habits.
 824 S28 Scarborough, Dorothy. From a southern porch.
 822 S53h Shaw, Bernard. Heartbreak House, etc.
 822.08 S64 Smith, A. M. ed. Short plays by representative authors.
 824 S93p Sturgis, Mrs. R. C. Personal prejudices.
 824 T59 Tomlinson, H. M. Old junk.
 824 W244 Warner, F. L. Endicott and I.
 821.08 W73 Winterly, J. T. comp. Yanks, A. E. F. verse.

DESCRIPTION AND TRAVEL

- 917.44 B22 Bangs, M. R. Old Cape Cod.
 918.6 B87 *Bullard, Arthur. Panama.
 914.71 B97 *Butler, F. H. Through Lapland with skis and reindeer.
 917.44 C39 Chatham, Dennis. Cape Coddities.
 917.3 D35 *DeConstant, P. H. B. America and her problems.
 914.6 H83 *Howe, Maud. Sun and shadow in Spain.
 917.3 J63w Johnson, Clifton. What to see in America.

- 917.4 K65 Kittredge, G. L. Old farmer and his almanac.
 910 M61 *Mill, R. H. ed. The international geography.
 917.8 M62a Mills, E. A. Adventures of a nature guide.
 917.1 N48 Newton, W. D. Westward with the Prince of Wales.
 919.6 O13 O'Brien, Frederick. White shadows in the South seas.
 914 P38 *Pennell, E. R. Nights.
 582 S59 Simmons, J. R. Historic trees of Massachusetts.
 917.9 S63 Sloane, J. M. The smiling hill-top.
 914.259 T37 *Thompson, A. H. Cambridge and its colleges.
 917.91 V28 Van Dyke, J. C. Grand canyon of the Colorado.

BIOGRAPHY

- 92 R764a Abbott, L. F. Impressions of Theodore Roosevelt.
 92 I52 *Balfour, Frances. Dr. Elsie Inglis.
 92 B264 Barnett, H. O. R. Canon Barnett. 2v.
 92 R674b Bishop, J. B. Theodore Roosevelt and his time. 2v.
 92 D373 *Cook, Sir Edward. Delane of the Times.
 92 A933f Firkins, O. W. Jane Austen.
 92 G413 *Gillespie, Mrs. E. D. Book of remembrance.
 92 R764g Graham, H. G. Rousseau.
 92 L641 *Holland and Rockstro: Memoir of Mme. Jenny Lind—
 Goldschmidt. 2v.
 92 W851 *Holme, J. G. Life of Leonard Wood.
 92 H835h *Howe, Maud. The eleventh hour in the life of Julia
 Ward Howe.
 92 N161re *Rose, J. H. Life of Napoleon I.
 92 W562 Wheeler, Candace. Yesterdays in a busy life.
 92 W588 Whiteley, Opal. Story of Opal.
 92 Y89 *Younghusband, Sir George. A soldier's memories.

HISTORY

- 940.9 A82 *Ashley, R. L. Modern European civilization.
 956 A83 Aslan, Kevork. Armenia and the Armenians.
 940.91 B28 Barton, George. Celebrated spies and mysteries of the
 Great War.
 940.91 B29 Bassett, J. S. Our war with Germany.
 974.2 C74b *Bouton, Nathaniel. History of Concord, N. H.
 974.4 H29c *Chase, G. W. History of Haverhill, Mass.
 940.91 C97 *Cutler, F. M. The 55th artillery, A. E. F.
 994 F86 Fraser, J. F. Australia.
 940.91 G12 *Gaines, Ruth. A village in Picardy.
 940.91 G355n Gibbs, Philip. Now it can be told.
 991.4 K12 *Kalaw, M. M. Self-government in the Philippines.
 956 K72 Knapp, G. H. Tragedy of Bitlis.
 973.2 L88 Lord, Arthur. Plymouth and the Pilgrims.

267.3 M45	*Mayo, Katherine. "That damm Y."
953 P83	*Porter, R. P. Japan.
940.91 R676	Roosevelt, Theodore. Average Americans.
940.91 S61	Sims, W. S. The victory at sea.
940.91 S62	*Sirois, E. D. Fighting Battery C, 102nd F. A.
940.91 U85S	Usher, R. G. Story of the Great War.
920 W32	Watkins, J. E. Famous mysteries.

FICTION

Arnold, E. L. Wonderful adventures of Phra the Phoenician.
 Bacheller, Irving. Man for the ages.
 Barbusse, Henri. *We others.
 Bassett, S. W. The harbor road.
 Bassett, S. W. The wall between.
 Bindloss, Harold. Partners of the out-trail.
 Black, Alexander. The great desire.
 Bojer, Johan. *Power of a lie.
 Brown, E. A. That affair at St. Peter's.
 Buck, C. N. *Pagan of the hills.
 Burt, K. N. The red lady.
 Carlsen, C. L. Son of Pio.
 Cummins, G. D. The land they loved.
 Cutting, M. S. Some of us are married.
 Darrow, Clarence. Farmington.
 Day, Holman. All-wool Morrison.
 Dillon, Mary. Farmer of Roaring Run.
 Dingle, A. E. Gold out of Celebes.
 Ervine, St. J. G. Foolish lovers.
 Evarts, H. G. The cross pull.
 Ferber, Edna. Half portions.
 Fitzgerald, F. S. K. This side of Paradise.
 Fletcher, J. S. The Paradise mystery.
 Fletcher, J. S. The Talleyrand maxim.
 Foote, M. H. The ground swell.
 Footner, Hulbert. The fur bringers.
 Foster, John. The searchers.
 French, J. L. ed. Best psychic stories.
 Gale, Zona. Miss Lulu Bett.
 Gerould, G. H. Youth in Harley.
 Graham, Alan. Follow the little pictures.
 Graham, J. C. It happened at Andover.
 Grey, Zane. Man of the forest.
 Hall, E. B. Love laughs last.
 Hannay, J. O. Up, the rebels!
 Hawkins, A. H. Secret of the tower.

Howells, W. D. ed. Great American short stories.
 Ibanez, V. B. Mare nostrum.
 In the mountains.
 Kelley, E. M. Outside Inn.
 Kerr, Sophie. Painted meadows.
 Knibbs, H. H. Ridin' kid from Powder river.
 Kyne, P. B. Green pea pirates.
 Lewis, Sinclair. Main street.
 Lincoln, J. C. The Portygee.
 Locke, W. J. House of Baltazar.
 Lynde, Francis. The wreckers.
 MacGrath, Harold. Man with three names.
 MacKenzie, Compton. Poor relations.
 McSpadden, J. W. ed. Famous detective stories.
 Marshall, Archibald. Many Junes.
 Marshall, Archibald. Sir Harry.
 Mason, C. A. Conscripts of conscience.
 Merrick, Leonard. Conrad in quest of his youth.
 Montgomery, L. M. Further chronicles of Avonlea.
 Morris, E. B. The cresting wave.
 Mulder, Arnold. The outbound road.
 Myers, A. B. Patchwork.
 Norris, Kathleen. Harriet and the piper.
 Norton, Roy. Drowned gold.
 Oemler, M. C. *The purple heights.
 Olmstead, Florence. Stafford's island.
 Onions, Mrs. Oliver. The disturbing charm.
 Onions, Mrs. Oliver. Sweethearts unmet.
 Oppenheim, E. P. The great impersonation.
 Ovington, M. W. The shadow.
 Porter, R. N. Girl from Four Corners.
 Price, E. B. Silver Shoal light.
 The rain girl.
 Reeve, A. B. ed. Best ghost stories.
 Sampson, E. S. Mammy's white folks.
 Sawyer, Ruth. Leerie.
 Sedgwick, A. D. The third window.
 Shafer, D. C. Barent Creighton.
 Singmaster, Elsie. Basil Everman.
 Sullivan, Alan. The rapids.
 Swinnerton, Frank. September.
 Taylor, K. H. Barbara of Baltimore.
 Vachell, H. A. Whitewash.
 Vallotton, Benjamin. *Potterat and the war.
 Vorse, M. H. Growing up.

Walpole, Hugh. Jeremy.
 Ward, Florence. The singing heart.
 Ward, Mrs. M. A. A. Helena.
 Wells, Carolyn. Raspberry jam.
 White, S. E. The killer.
 Widdemer, Margaret. The boardwalk.
 Williamson, C. N. and A. M. The lion's mouse.
 Williamson, C. N. and A. M. The second latchkey.
 Willsie, Honoré. The forbidden trail.

CHILDREN'S BOOKS—NON-FICTION

821.08 B17	Baker, E. K. comp. Children's book of poetry, 3v.
353 F86	Fraser, C. C. Young citizen's own book.
796 G44	Girl scouts. Scouting for girls.
694 G57	Goldsmith, Milton. Practical things with simple tools.
909 G65	Gordy, W. F. American beginnings in Europe.
940.91 G65	Gordy, W. F. Causes and meanings of the Great War.
914.1 H91	Hunter, G. M. When I was a boy in Scotland.
361 H99	Hyde, M. K. Girls' book of the Red Cross.
973.2 M42	Mathews, Basil. Argonauts of faith.
914.5 M47	Meiklejohn, N. L. Cart of many colors.
793 P29c	Payne, F. U. Plays and pageants of citizenship.
92 A668 r	Richards, L. E. Joan of Arc.
920 R79	Rowell, C. W. H. Leaders of the Great War.
511 S64	Smith, D. E. Number stories of long ago.
641 W29	Waterman, A. H. L. Little preserving book for a little girl.
940.91 W56	Wheeler, F. R. Boys' book of the world war.
793 W63	Wickes, F. G. Child's book of holiday plays.
970.1 W69	Wilson, E. N. The white Indian boy.

STORIES FOR CHILDREN

Baker, Olaf. Shasta of the wolves.
 Barbour and Holt. Mystery of the Sea-lark.
 Burton, C. P. The trail makers.
 Heyliger, William. High Benton.
 Ingersoll, Ernest. Raisin creek exploring club.
 Knipe, E. B. and A. A. A Mayflower maid.
 Lindsay, Maud. Bobby and the big road.
 McNeil, Everett. Buried treasure.
 Meigs, Cornelia. Pool of stars.
 Perkins, L. F. Italian twins.

Phillips, E. C. Little friend Lydia.
Quirk, L. W. Boy scouts of Lakeville High.
Richards, L. E. Honor Bright.
Scoville, Samuel. Blue pearl.
Seaman, A. H. Crimson patch.
Singmaster, Elsie. John Baring's house.
Spyri, Johanna. Cornelli.
Taggart, M. A. Pilgrim maid.
Turpin, Edna. Treasure mountain.
White, E. O. The strange year.

REPORT OF CUSTODIAN

JOHN CORNELL ART GALLERY

To the Trustees of the Memorial Hall Library.

GENTLEMEN: I herewith submit the report of the gallery for the twelve months ending December 31, 1920.

The attendance for the past year has necessarily been small, the high price of coal having a blighting effect upon the ability of the gallery to present an open door and a comfortable welcome during the winter months. A regrettable, but unavoidable situation.

The gallery was opened the first of May and closed the first of November. 182 visitors were registered. Of this number, 63 were adults and 119 children.

The ending of the year of 1920 rounds out twenty years of service which the gallery has rendered to the townspeople. Though inaccessible to those who, through age or other limitations, cannot climb so high, it surely has been a source of inspiration and help to many. Much has been done; more could be accomplished. Here is a collection of high-grade photographs, presenting a wealth of beauty and knowledge. If parents and teachers would co-operate by endeavoring to arouse an added interest in the children in the attractions of the gallery, occasionally coming in with them, the result would be beneficial to all. The older scholars should have a certain familiarity with Raphael's wonderful frescoes in the Vatican, his Loggia, and Michael Angelo's mighty work in the Sistine Chapel. They should know about Raphael's cartoons, one of the treasures of the South Kensington Museum in London. All this, and more, could they learn by repeated visits to the gallery.

Of course, there are many children to whom such subjects would not appeal, but there are also others who would only need starting in that direction. Once their interest was aroused, they would keep on in the quest for more light.

The attention of the public has been called before to the collection of photographs so generously donated by Mr. Addison B. LeBoutillier. Some of these would play an important part in the suggestions which have been presented. The gallery has been a decided asset to the town. It should be even more so in the coming years.

Respectfully submitted,

ABBIE S. DAVIS

Custodian

TOWN OF ANDOVER

TWENTY-FIRST ANNUAL
REPORT

OF THE

BOARD OF PUBLIC WORKS

EMBRACING THE THIRTY-SECOND ANNUAL REPORT OF
WATER COMMISSIONERS AND TWENTY-
FOURTH ANNUAL REPORT OF
SEWER COMMISSIONERS

FOR THE YEAR ENDING

DECEMBER 31, 1920

ANDOVER, MASS.
THE ANDOVER PRESS
1921

WATER COMMISSIONERS

1889—1899

*JOHN H. FLINT

*JAMES P. BUTTERFIELD

*FELIX G. HAYNES

SEWER COMMISSIONERS

1893—1894

*WM. S. JENKINS

*JOHN L. SMITH

CHARLES E. ABBOTT

1894—1899

*WM. S. JENKINS

*JOHN L. SMITH

*JOHN E. SMITH

BOARD OF PUBLIC WORKS

1899—1902

*JOHN H. FLINT

*WM. S. JENKINS

*JOHN L. SMITH

*JAMES P. BUTTERFIELD

*FELIX G. HAYNES

1903—1906

*JOHN L. SMITH

*FELIX G. HAYNES

*JOHN W. BELL

*LEWIS T. HARDY

JAMES C. SAWYER

1906—1907

*FELIX G. HAYNES

*JOHN W. BELL, Treas.

JAMES C. SAWYER, Sec'y

*LEWIS T. HARDY

*HARRY M. EAMES

1907—1908

*FELIX G. HAYNES

*JOHN W. BELL, Treas.

JAMES C. SAWYER, Sec'y

*LEWIS T. HARDY

ANDREW McTERNEN

1908—1912

*LEWIS T. HARDY

*JOHN W. BELL, Treas.

JAMES C. SAWYER, Sec'y

ANDREW McTERNEN

WILLIS B. HODGKINS

1913—1914

*LEWIS T. HARDY ('16)

BARNETT ROGERS ('16)

ANDREW McTERNEN ('15)

THOS. E. RHODES, Sec'y ('14)

WILLIS B. HODGKINS, Treas. ('15)

1914—1916

THOS. E. RHODES ('19)

BARNETT ROGERS ('16)

*LEWIS T. HARDY ('16)

ANDREW McTERNEN, Sec'y ('18)

WILLIS B. HODGKINS, Treas. ('18)

1916—1917

BARNETT ROGERS ('19)

THOS. E. RHODES ('17)

ANDREW McTERNEN ('18)

CHAS. B. BALDWIN, Sec'y ('19)

WILLIS B. HODGKINS, Treas. ('18)

1917—1918

BARNETT ROGERS ('19)

THOS. E. RHODES ('20)

ANDREW McTERNEN ('18)

CHAS. B. BALDWIN, Sec'y ('19)

WILLIS B. HODGKINS, Treas. ('18)

1918—1919

BARNETT ROGERS ('22)

ANDREW McTERNEN ('21)

PHILIP L. HARDY ('21)

CHAS. B. BALDWIN, Sec'y ('22)

THOS. E. RHODES, Treas. ('20)

1919—1920

BARNETT ROGERS ('22)

WILLIAM D. McINTYRE ('21)

THOS. E. RHODES, Treas. ('23)

ARTHUR T. BOUTWELL ('22)

PHILIP L. HARDY Sec'y ('21)

SUPERINTENDENT

FRANK L. COLE

* Deceased.

REPORT OF BOARD OF PUBLIC WORKS

To the Citizens of the Town of Andover, Mass.

Your Board of Public Works herewith submits its annual report for the year ending December 31, 1920.

This is the eighth annual report of the Board under the reorganization and includes the thirty-second annual report of the water system, the twenty-fourth of the sewer system and the eighth of the Highway and Park Departments since they have been under the control of the Board of Public Works.

ORGANIZATION

Mr. Arthur Boutwell and Mr. William McIntyre were elected to the Board by vote of the Town, the former for two years to fill out the unexpired term of Mr. Charles Baldwin, resigned, and the latter for one year to fill out the unexpired term of Mr. Andrew McTernen, resigned.

The Board met on March 3, 1920 and organized as follows:

Chairman, Barnett Rogers.

Secretary, Philip L. Hardy.

Treasurer, Thomas E. Rhodes.

Mr. Frank L. Cole was appointed Superintendent of the Board of Public Works for one year at a salary of \$3000.00 a year and Mr. George Dick was appointed as Assistant Superintendent at a salary of \$30.00 a week.

WATER DEPARTMENT

During the past year no extensions have been made to the water system with the exception of extensions made in Shawsheen Village which have been paid for by the owners.

The appropriation of \$17,000.00 for maintaining the present system was overdrawn \$2,924.11, which is accounted for by the fact that we pumped 27,000,000 gallons of water to Lawrence for which the town received \$5,000.00, which if placed to the credit of the water department would show that we kept well within our appropriation.

The appropriation of \$2000.00 for construction was spent on installation of new service-pipes, meters, and expenses attached to them.

The Board recommends the sum of \$18,000.00 for maintenance and \$2,000.00 for construction for the use of this department for the ensuing year.

THE WATER BONDED DEBT

The Bonded Debt of the Water system January 1, 1920, was \$123,000.00. During the year 1920 there has been paid out, out of the Town Treasury, \$8,000.00; leaving a bonded debt on this system January 1, 1921, of \$115,000.00.

Of this indebtedness \$40,000.00 is redeemable by the Sinking Fund, which on January 1, 1921, amounted to \$33,026.14.

The sum of \$750.00 should be appropriated for the Sinking Fund for the year 1921.

THE SEWER DEPARTMENT

At a special Town Meeting held last year the Town voted to issue bonds to pay for the cost of extending the main sewer from Stimpson's Bridge to a new pumping station to be located in Shawsheen Village and to reimburse the American Woolen Company for the difference in cost between an eight-inch and a twelve-inch force main from the new station to the filter-beds, as was advocated by the Board of Public Works.

The Board advertised for bids for this work and at a meeting held September 20, 1920, Cendella and Company of Milford,

Mass., were awarded the contract for laying a main sewer from Stimpson's Bridge to a new pumping plant at Shawsheen Village, for the sum of \$14,700.00 with a provision of \$8.00 per cubic yard for ledgework.

This work was started as soon as the pipe could be procured and has been finished during 1920. The pipe for the work was furnished by the Town and a detailed statement of the expenditures is included in the report of the Superintendent.

There were no other extensions made to the sewerage system during the past year. A statement of the upkeep and maintenance of the present system in detail, is included in the Superintendent's report.

The State Department of Public Health has advised this Board that it will be absolutely necessary to enlarge the filtration beds this coming year. To accomplish this enlargement the Board asks and recommends an appropriation of \$15,000.00 to pay for the cost of doing such part of this work as it seems advisable should be done this year.

The sum of \$3,000.00 is recommended for maintenance of the Sewer Department for the ensuing year.

THE SEWER BONDED DEBT

The bonded debt of the Sewer System January 1, 1920, was \$85,000.00. During the year 1920, \$5,000.00 was paid from the town treasury on this indebtedness. As was voted by the town, bonds were issued for \$40,000.00 to extend the Sewer to Shawsheen Village and pay part of the cost of the new force main, thus making the total indebtedness on January 1, 1921, \$120,000.00.

Of this amount \$30,000.00 is redeemable by the Sinking Fund which on January 1, 1921 amounted to \$19,170.35.

The sum of \$1,000.00 should be appropriated for the Sinking Fund for the year 1921.

HIGHWAY DEPARTMENT

The Board has maintained its policy of placing cinders on roads in the outlying districts as far as possible with the material and money available.

There have been no new tarvia roads built during 1920 with the exception of Lowell Street and Wolcott Avenue, which were provided for by special appropriations.

The tarvia roads already built and which required blanketing were, as is customary, given a coat of tar and sand to maintain them in as good condition as possible.

In order to keep heavy traffic off School, Central and Bartlet Streets, and to prevent excessive wear, the Board of Public Works petitioned the selectmen to close these streets to heavy traffic, which they very kindly did.

The Town was very fortunate in having the Public Works Department of the State rebuild that part of Main Street between Porter Road and Chapel Avenue and save a very heavy expense to them. Also the State Highway has been extended approximately 800 feet nearer the center of the town. The permanent job done on the hill was accomplished at an expense to the town of approximately \$10,000.00, which is only a small fraction of the cost of the entire work. The Board hopes in the near future to show its appreciation of the co-operation of the State by extending this fine type of permanent road to the square.

It was found necessary to purchase a new steam roller for the use of this department, which necessitated an expenditure of \$5500.00. The old roller had served the town for eighteen years and was sold for \$1,000.00.

A detailed statement of the expenditures of the appropriations for highways is given in the report of the Superintendent.

The Board asks and recommends the appropriation of \$30,000 for new construction and \$30,000.00 for maintenance for the ensuing year.

SNOW REMOVAL

An expenditure of \$10,800.00 was necessary to take care of removing snow during 1920, which cut down materially the appropriation for Highway maintenance, as the Board had included in its budget only \$1500.00 to do this work.

We have included under the maintenance appropriation recommended above, the sum of \$2000.00 to care for the cost of removing snow the ensuing year.

SIDEWALKS

The Board has been able to do very little in the way of building new sidewalks during the past year, owing to the heavy expenditures necessary in the other work of the department.

LOWELL STREET

There have been 6575 feet of road built on Lowell Street the past year at an expense of \$37,500.00. One third of this expense was borne by the Town, \$5,000.00 of this portion was taken care of by special appropriations and the balance taken out of the construction appropriation of the Highway Department.

There remains about seven-eighths of a mile of road to build to complete Lowell Street to the Tewksbury line and the Board has inserted an article in the warrant asking for an appropriation of \$5,000.00 as the town's share of the expense to complete the work in the ensuing year.

At the last annual town meeting the Board was instructed to make an investigation of the water department and to make such recommendations as they thought advisable at the next town meeting. With the idea in mind of obtaining all the information possible, the Board invited a committee consisting of Mr. E. V. French, Mr. Fred Wallace, and Mr. Chester Holland to assist them in this investigation and to make a report to the Board making such recommendations as they saw fit.

This committee has made a report to the Board making certain recommendations which this Board highly endorses and hopes the town will see fit to adopt.

The Board appreciates the work done by these gentlemen in investigating this department and wishes to take this opportunity to thank them for their co-operation.

BARNETT ROGERS
THOMAS E. RHODES
WILLIAM D. McINTYRE
ARTHUR T. BOUTWELL
PHILIP L. HARDY

Board of Public Works

ANDOVER WATER WORKS

At the Annual Town Meeting, March 1, 1920, after discussing a proposition to increase the water rates, an amendment to a motion was adopted reading as follows:

That the Board of Public Works be instructed to investigate the whole status of the Water Department covering the question of rates, the charges for fire services and other public services, and the advisability of having the Water Department operated as a self-supporting department and to report its conclusions and recommendations at the next Annual town meeting or at a special town meeting.

The Board of Public Works asked Messrs. E. V. French, C. W. Holland and F. A. Wallace to report to it on this matter with advice as to the course recommended, and we have given the problem careful study.

The Town of Andover now appropriates yearly the money necessary for the maintenance of the Water Works, for new construction, for the interest on the water bonds, and for the sinking fund and serial bond requirements. In return the Town takes the income from water rates.

It is now generally agreed that a public water system should be operated as a separate business, with its own accounts independent from the other finances of the town. It may, however, be carried on as a division of another department so as not to duplicate machinery, and in Andover it would be best for it to continue under the Board of Public Works. In many New England cities and towns the water works are operated as a separate business in this way.

The principal argument for this method is that the supplying of water is a public service different from practically all other services rendered by a town, in that a revenue is received and it seems the soundest business policy to make the service pay its own way. There appears no good reason why water users should get water cheaper than its cost with the deficit made up by contribution from the general tax levy or that they should pay more

than the cost and return a profit to the general treasury. Operation as a separate business encourages efficiency and shows quickly whether the water works are being operated at a profit or a loss.

The year 1921 promises to be a normal one for the water department and it is probable that for some years to come the conditions will not vary greatly. The estimated Income and Expenditures for the Andover Water Works for 1921 are as follows:

INCOME

From sale of water to Andover users	\$26,500
From other sources — <i>net</i>	
	<hr/>
Total	\$26,500

EXPENDITURES

For pumping, Care of Ponds, Reservoirs, Mains, Services and Hydrants, Repairs, Reading Meters, Office Expenses and all sundries	\$18,000
New Construction	2,000
	<hr/>
Total for Operation	\$20,000
Serial Bonds maturing	\$8,000
Serial Bond coupons	2,677
Sinking Fund requirements	750
Sinking fund coupons	1,600
	<hr/>
	\$13,027
	<hr/>
	13,027
	<hr/>
Total Expenditures	\$33,027
Total Income from above	26,500
	<hr/>
Difference or deficit	\$ 6,527

This difference must now be made up from the general tax levy. With the growth of Shawsheen Village there will probably be some increase in consumption and consequently a gain in revenue and a small corresponding increase in expenditures.

There will, however, be an appreciable reduction year by year in the cost of the bonded debt as follows:

1921	\$13,027	1931	\$5,647
1922	10,563	1932	4,463
1923	9,937	1933	3,335
1924	8,763	1934	1,261
1925	7,257	1935	1,220
1926	6,772	1936	1,180
1927	6,588	1937	1,140
1928	6,302	1938	1,100
1929	6,018	1939	1,060
1930	5,833	1940	1,020

The above figures show that a few years hence the water works will become self-supporting unless considerable additional expenditures have to be made.

There are, however, some additional sources of revenue, which the water department, if on a true business basis, ought to have. It is a fact that a considerable percentage of the original cost of the average water works plant is due to the fact that the system was made of a good deal larger capacity than necessary to furnish water for domestic and manufacturing purposes in order that it may be able to supply water for extinguishing fires.

Two ordinary 1 1-8 in. fire streams, throwing 250 gallons per minute each, would discharge 720,000 gallons in twenty-four hours. The average daily consumption in Andover is about 600,000 gallons. Two streams would give but scant protection for the business center of the town or for any large single building. Therefore, the *rate* of use of water for fire fighting is several times greater than that for all other purposes and must be supplied in addition to these normal uses.

This requires larger mains and reservoirs and in some cases larger pumping capacity and consequently increases the cost of the works appreciably. This extra cost of the water works is purely a fire cost and the fixed charges due to it should properly be paid for in the same way that the fire department is sustained, that is, from the general tax levy. The amount of water which any consumer uses normally is not necessarily a measure of his

proper contribution for fire protection. Taxable value, though not a perfect guide, is more nearly a true measure. It would, therefore, be a simple way of handling the situation to assume that the difference between Income and Expenditures should be considered as payment for fire services rendered by the water works.

This charge would decrease as the requirements for the bonded debt decrease and it could later be determined whether it was better to continue a reasonable appropriation for this purpose and reduce the water rates or keep up the water rates and let this appropriation disappear largely. This charge would be considerably more than the \$6,500 required today and can be computed more closely later if desired.

The Town now pays the ordinary rates for water used in the schools and engine houses but does not pay for the water used in the public drinking fountains and for some few other public purposes. The water department should, however, receive a proper payment for all water supplied.

In the matter of depreciation it is probably fair to assume that the past generation has built and paid for the present water works plant and that they will turn over to the next generation much valuable equipment still good for many years. Therefore, the next generation may properly pay in its turn for renewals and extensions by a further issue of bonds. With the present light we think that this is a fair arrangement.

The practical working out of this would mean that all ordinary repairs and moderate renewals would be paid out of income. If, however, a considerable outlay became necessary, such as new pumping equipment or a large new supply main, it would be covered by issuing bonds.

It will be of interest for a moment to look at the problem from another angle, namely to take the cost of the works to date, less depreciation, and then assume that as a going business it ought, after paying all expenses, to yield a fair return on its cost and put aside a proper amount yearly for a sinking fund to renew the plant as it wears out.

The Water Department records show the actual cost to date to be \$388,700. Equipment discarded may be estimated roughly

at \$10,700, leaving the cost of the works now in use as \$378,000. It would probably be fair to assume that the plant as a whole had depreciated 30% to date. This would leave the value of the works today on the basis of original cost 70% of \$378,000 or \$265,000.

A return of 6% would seem fair. An annual depreciation of about 2% might be reasonable and may be used in this computation. If a private business, taxes would be paid, say 2%. We would then have figures as follows:

Cost of operation as above	\$20,000
Interest 6% on \$265,000	15,900
Depreciation 2% 265,000	5,300
Taxes 2% on 265,000	5,300
	<hr/>
Total	\$46,500
Total income with present rates	26,500
	<hr/>
Deficit	\$20,000

A fair charge for fire service would pay over half of this deficit. A charge for unpaid water now used would reduce it further. The remainder is very likely due in large measure to the liberal extensions of mains into thinly settled districts where the returns for water sold are small. A private water company could not have afforded the considerable expenditures which these extensions cost. It would, of course, cost a good deal more to replace the plant today than \$378,000, the original cost of the works now in use, but for this general view no consideration need be given to this fact.

Under all the conditions we believe as a practical matter the first method of consideration is the best one and recommend as follows:

1. That the water works of Andover be operated as a separate business but under the Board of Public Works as at present.
2. That the present water rates should not be raised as a whole. It is possible that some simplifying of the present sliding scales can be made to advantage.
3. That the Water Department make yearly a statement of the difference between the estimated expenditures and receipts

for the coming year and that the Town appropriate an amount to cover this which may be considered as payment for the fire service which the water works stand ready to furnish at all times.

4. That a proper amount be collected for all water used for drinking fountains and any other public purposes for which the water department now receives no income.
5. That moderate repairs and extensions be made from normal income but that any large requirements for these purposes be paid for by issuing bonds.

It now seems probable that there will be no requirement for any large expenditures for new work for several years to come. It can be determined best later whether it is better to let the charge for fire service disappear as the requirements for outstanding bonds decrease or to continue a considerable appropriation for this purpose and readjust rates. It is entirely possible that before this becomes a live question some further needs will require an issue of bonds, thus making new fixed annual charges and preventing any large reductions in income required.

Respectfully submitted,

E. V. FRENCH
C. W. HOLLAND
F. A. WALLACE

REDEMPTION OF BONDS

	DR.	
To redeem Water Loan	No. 2 due 1922	\$10000.00
	No. 3 " 1923	10000.00
	No. 4 " 1925	15000.00
	No. 5 " 1928	5000.00
Balance January 1, 1920		\$30898.53
Appropriation March 1, 1920		750.00
Interest on deposit		1377.61

\$33026.14

Balance Sinking Fund Jan. 1, 1921 \$33026.14

	CR.	
Water Loan Funds deposited:		
Andover Savings Bank		\$10029.80
Andover National Bank		22996.34
		<hr style="width: 100%;"/> \$33026.14

	DR.	
To redeem Sewer Loans due 1928		\$30000.00
Balance Jan. 11, 1920		\$17007.12
Appropriation March 1920		1000.00
Assessments		442.45
Interest on deposits		720.78

Balance Sinking Fund Jan. 1, 1921 \$19170.35

	CR.	
Sewer Loan Deposits:		
Andover National Bank		\$19170.35

B. ROGERS
THOMAS E. RHODES
ARTHUR T. BOUTWELL
WILLIAM D. McINTYRE
PHILIP L. HARDY

Examined, J. S. ROBERTSON }
 W. H. COLEMAN } *Auditors*

SUPERINTENDENT'S REPORT

To the Board of Public Works.

GENTLEMEN: — In accordance with the usual custom I herewith submit the Thirty-Second report of the Water System, Twenty-fourth of the Sewer System, and the Eighth of the Highways and Parks, containing a brief summary of the work performed by the different Departments, for the year ending Dec. 31, 1920, with recommendations for 1921.

WATER DEPARTMENT

There were no new mains laid during 1920 on the Town Streets. There were some laid on private property and paid for by owner. This was all 6" C. I. Pipe. Very little has been done on our Main Lines, only repairs, such as leaks, many joints have been blown, these being repaired as soon as discovered. During the year, or since our estimates were given to the Finance Committee, Wages, Coal, Oil and in fact most everything has advanced. We were obliged to help Lawrence out last February and March, for two months where we only expected to pump 3 or 4 weeks. Therefore our Maintenance of the Water Department was overdrawn somewhat. Our steam plant at Haggetts Pond was operated during 1920, 365 days, and has given good results as the following tables will show.

Days	Hours	Gals. pumped	Coal used	Oil used	Average d'ly
365	3713.15	254,727,887	374 Tons	166	697,884 gals.

While this is an average of 100,000 gals. more per day than in 1919, during the months of February and March 1920 we pumped to Lawrence 27,216,675 gals. for which we received \$5,093.20 or \$186.66 per million from the City of Lawrence, leaving only about 9 millions for our own use more than 1919, while our water receipts for 1920 were \$2,458.69 more than 1919 after deducting Lawrence's \$5,093.20.

Receipts for water, 1919,	\$23,864.58,	Gals. pumped	218,279,797
" " " 1920,	31,416.47,	" "	254,727,887

No. 2 Station on Bancroft Road has been run practically the whole year on Electricity giving excellent results. This station is only used about 30 hours per week.

I would recommend for maintenance 1921:

Salaries and Labor	\$11,000.00
Coal, 350 Tons	3,500.00
Hard Coal	100.00
Fuel Oil, 3000 gals.	600.00
Eng. and Cylinder Oil	700.00
Power No. 2 Station	1,000.00
Keeping Horse and Car	600.00
Miscellaneous	500.00
	<hr/>
	\$18,000.00

Changing over Water Main on Haverhill Street, Shawsheen Village, Service Pipes and Hydrants, \$1500.00.

Permission to use the last Bond issue should be asked for the necessary funds for this work at the regular Town Meeting.

SERVICE PIPE

There have been 65 applications received and 73 laid, which now makes 1594 actually in use, or a total of 126,443 feet in length. There were 8 more laid than applications called for, because these were left over from 1919.

METERS

During 1920 there were set 90 meters varying from 5-8-2" in size.

I would recommend for Service Pipe and Meters in 1921 the same as 1920, \$2,000.00.

RECEIPTS

Service Pipes and Meters		\$ 7,895.09
Water rates		31,415.47
		<hr/>
		\$39,310.56
Credits paid Treasurer		
Water rates	\$31,415.47	
Pipe Account	7,895.09	
	<hr/>	
	\$39,310.56	\$39,310.56

SEWER DEPARTMENT

During the year a Main Sewer has been laid from the present house at Shawsheen River, a distance of 3454 feet to a new pump house in Shawsheen Village, at a cost of \$45,651.11. This cost included the main line above, difference between 8" and 12", which was laid from the new pump house to our settling tank at filter beds. The cost and itemized accounts will be given in the Expenditure Table to follow. This was done on a \$40,000.00 bond issue, and there is a balance of \$81.00.

Received from American Woolen Co.	\$ 5,508.86	
Received from Cendella and Co.	223.25	
Received from Bond issue	40,000.00	
Expenditures		\$45,651.11
Balance		81.00
	<hr/>	<hr/>
	\$45,732.11	\$45,732.11

I recommend for Sewer Maintenance 1921, \$3,000.00.

HOUSE CONNECTIONS

There were received 16 applications for House Connections and of these only 14 were laid, making 756 in actual use. All connections in Shawsheen Village have been laid by private owners, and up to this time are not a part of our system.

FILTER BEDS

There still remain 5 beds partly finished and pipe for a main line to feed them. According to letters on file from State Board of Health, we will have to build about 4 more as well as finish all work started during 1921.

This will require	\$15,000.00
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SUMMARY COST OF CONSTRUCTION

WATER DEPARTMENT

DESIGNATION	Summary Approved Bills	Credits	Net Cost for 1920	Total Cost for Construction
Office Fixtures				\$ 561.75
Telemeters				1311.63
Telephones				184.77
Teams				583.65
Pipe Distribution				254405.02
Service Pipe	8446.82	6425.84	2020.98	32265.64
Water and Land				6687.23
Suction Pipe				1309.46
Reservoirs				16985.82
Coal Shed				806.97
Grading Land				1739.12
Workshop				1271.88
Buildings Pumping Station				9610.14
Pumping Plants				47983.54
Construction Expenses				9406.21
Tools				3593.14
Maintenance	21393.36	1469.25	19924.11	
TOTALS	\$29840.18	\$7895.09	\$21945.09	\$388705.91

SUMMARY COST OF CONSTRUCTION

SEWER DEPARTMENT

Sewer Main in feet	49494		
Number of Filter Beds		28	
Number of Sludge Beds		3	
Cost to Abutters			124519.78
Cost to Town			173009.16
TOTALS	49494	31	\$297528.94

EXPENDITURES

NAMES	WATER DEPARTMENT			SEWER DEPARTMENT				
	Mainte- nance	Con- struction	Total	Mainte- nance	House Con- nection	Shaw- sheen Sewer	Total	Grand Totals
Payrolls, Labor and Teams	\$10033.99	\$2434.10	\$12468.09	\$	\$ 771.98	\$ 80.00	\$ 1320.94	\$13788.95
Vacuum Oil Co., oils	529.34	160.71	690.05					690.05
Sinclair Oil Co., oils	558.96		558.96					558.96
Andover Coal Co., coal	1090.32	9.00	1099.32					1099.32
Cross Coal Co., coal	3146.13		3146.13					3146.13
B. L. McDonald, coal	1571.42		1571.42			1408.20	1408.20	2979.62
Buchan and McNally, supplies	75.48	36.85	112.33					112.33
Water Works Equipment, supplies	334.85	123.00	457.85					457.85
Boston and Maine	168.29	69.28	237.57					1632.79
Cendella & Co., sewer						1395.22	1395.22	17908.00
Warren Foundry Co., C. I. pipe						17908.00	17908.00	18487.81
John Franklin						18487.81	18487.81	2682.15
National Lead Co., lead	210.09		210.09			2682.15	2682.15	1291.48
J. F. McDonough, teaming						1291.48	1291.48	1257.54
C. M. White & Co., covers						550.00	550.00	105.13
Curry Bros. Oil and Supply Co.	98.00	40.50	138.50			30.00	30.00	2.48
W. J. Morrissey, travel						2.48	2.48	165.00
Andover Press, supplies and advertisements	197.90		197.90			140.00	140.00	114.60
Town of Andover						114.60	114.60	18.00
E. P. Hall, cement						13.50	13.50	2.00
Anderson and Bowman						2.00	2.00	66.50
Lawrence Telegram, advertising					69.75			10.40
Lawrence Tribune, advertising								47.04
Rogers and Angus, recording deed								46.25
Boston Pipe and Fitting Co.	26.40	47.04	47.04					
F. E. Dodge, cement and labor		19.85	46.25					

NAMES	WATER DEPARTMENT			SEWER DEPARTMENT				
	Mainte- nance	Con- struction	Total	Mainte- nance	House Con- nection	Shaw- sheen Sewer	Total	Grand Totals
P. L. Hardy, stock and labor	254.77	81.00	335.77		322.00		322.00	657.77
M. O'Mahoney, pipe.					108.00		108.00	108.00
Ernest T. Hethrington, supplies					14.40		14.40	14.40
Lawrence Gas Company, light and power	929.08		929.08	355.02			355.02	1284.10
John L. Morrison	161.95	23.45	185.40	25.30			25.30	210.70
Walter I. Morse	108.42	8.50	116.92	19.35			19.35	136.27
H. E. Miller, rubber boots				20.25			20.25	20.25
Family Shoe Store, rubber boots	14.00		14.00	6.30			6.30	20.30
Bride Grimes	81.90	101.46	183.36	36.56			36.56	219.92
Andover National Bank				5.00			5.00	5.00
Smart and Flagg	3.00		3.00	20.00			20.00	23.00
Tyer Rubber Co.				46.65			46.65	46.65
B. L. Makepeace	3.87		3.87	37.89			37.89	41.76
Frank L. Holt				1425.00			1425.00	1425.00
Lead Lined Pipe Co., pipe		2201.86	2201.86					2201.86
H. Mueller Mfg. Co.	15.00	990.37	1005.37					1005.37
Neptune Meter Co.	53.87	457.17	511.04					511.04
Pittsburg Meter Co..	97.69	704.63	802.32					802.32
Thomson Meter Co.	25.47	551.74	577.21					577.21
Gamon Meter Co.		102.80	102.80					102.80
National Meter Co.	43.43		43.43					43.43
New England Tel. & Tel. Co.	253.16		253.16					253.16
Car Fares	199.64		199.64					199.64
American Express	20.96	55.45	76.41					76.41
Walworth Mfg. Co.		59.51	59.51					59.51
Chadwick Lead Co.		31.76	31.76					31.76
No. Andover B. P. Works		9.27	9.27					9.27

Eddy Value Co.	.	.	.	.	.	.	39.80	39.80					39.80
R. L. Buchan	.	.	.	.	.	.	35.74	196.36					197.36
Builders Iron Foundry	.	.	.	.	.	.	4.70	4.70					4.70
John A. Riley	.	.	.	.	.	.	4.00	4.00					4.00
Worthington Pump and Mch. Co.	.	.	.	.	.	.	42.16	407.70					407.70
Wm. Welch	.	.	.	.	.	.	1.20	1.20					1.20
August Mietz	.	.	.	.	.	.	4.74	4.74					4.74
Charles Hill	.	.	.	.	.	.	25.90	25.90					25.90
Merrimac Boiler Works	.	.	.	.	.	.	196.50	196.50					196.50
Dr. Lane	.	.	.	.	.	.	9.50	9.50					9.50
Rensselaer Valve Co.	.	.	.	.	.	.	6.75	6.75					6.75
Charles Emerson	.	.	.	.	.	.	7.50	7.50					7.50
J. E. Pitman	.	.	.	.	.	.	3.10	3.10					3.10
W. H. Coleman	.	.	.	.	.	.	27.45	27.45					27.45
A. W. Chesterton	.	.	.	.	.	.	26.00	26.00					26.00
Lawrence Mch. Co.	.	.	.	.	.	.	10.15	10.15					10.15
Queen & Gray Co.	.	.	.	.	.	.	52.00	52.00					52.00
Woodward Wagner	.	.	.	.	.	.	5.00	5.00					5.00
Boston and Lawrence Despatch Express	.	.	.	.	.	.	1.42	1.42					1.42
C. P. Harlow	.	.	.	.	.	.	18.00	18.00					18.00
Suffolk Specialty Co.	.	.	.	.	.	.	2.25	2.25					2.25
Sherman Envelope Co.	.	.	.	.	.	.	23.45	23.45					23.45
Buchan and Francis	.	.	.	.	.	.	.95	.95					.95
A. L. Cole	.	.	.	.	.	.	1.10	1.10					1.10
Bingham and Taylor	.	.	.	.	.	.	41.64	41.64					41.64
C. L. Wilson	.	.	.	.	.	.	46.75	46.75					46.75
Wm. C. Crowley	.	.	.	.	.	.	18.48	18.48					18.48
H. J. Stanchfield	.	.	.	.	.	.	16.54	16.54					16.54
Hersey Mfg. Co.	.	.	.	.	.	.	13.65	13.65					13.65
TOTAL EXPENDITURES	\$21393.36	\$8446.90	\$29840.26	\$2466.28	\$1363.03	\$45651.11	\$49480.42	\$79320.60

HIGHWAY AND PARKS

To the Board of Public Works.

GENTLEMEN:—I submit to you the eighth annual report of Highways, for the year ending December 31, 1920. While the policies of the previous year have been followed as closely as possible, with the scarcity of labor and the increased cost of all materials it has been a difficult problem to contend with, and therefore has occasioned expenses that were not taken into consideration at the beginning of the year.

CLEANING STREETS

The streets were cleaned in the Spring, gutters cleaned, and catch basins; I would say the catch basins have been cleaned out four times during the year, and some a great many more. In the fall the leaves cause a great deal of trouble getting over the grates. We kept two men burning these for about one month, but it is impossible to keep them cleaned up, as so many of the property owners rake into the street and leave them there. As we have so many tarvia streets, I would recommend that another man with a hokey-pokey cart be kept going for at least five months in the summer. It would be a great improvement in the looks at a very small cost.

SNOW.

On January 10th, the snow plows were out for the first time in 1920, and from then until the snow was gone. We tried to keep the sidewalks and roads open to the best of our ability, but it was impossible to keep them open all the time. We spent on snow during 1920, \$10,833.65 — the largest amount spent on snow for over twenty years. It was all for labor, teams and a few repairs to the plows.

SIDEWALKS

During 1920, there have been 810 feet of curbing set, 298 yards. granolithic walks, 497 yards sidewalk, 357 yards, resurfacing, 494 yards of driveway, about 100 yards of gutter work. There have been cinders put on many sidewalks, and we would do more,

only it is getting almost impossible to get fine ones fit for this use. Sidewalks are needed in a great many places, and more should be done in 1921 than was done in 1920. More of the granolithic walks should be built such as were started on Main street, Marland Village, this summer. This work is not only necessary, but it adds value to the property which it borders, and is of a permanent nature.

BLANKETING OF STREETS

This work is of a great necessity, because it covers two purposes. First, it helps to preserve the roads. Second, it acts as a dust layer. For these reasons we cannot afford to let this work go at all. As it is very plain to see, some of this work had to be neglected during 1920 and the roads show it. Now in 1921, we have to practically blanket every street we have, with a thin coat of tarvia or asphalt and a covering of coarse sand. There is no use of building roads, if you do not take care of the ones already built. There was no oiling done in 1920. It will take 25,000 gallons of tarvia B or asphalt and about 750 loads of sand to do our blanket work in the spring of 1921. This will require an expenditure of \$5000.00 for material alone.

HIGHWAY CONSTRUCTION

The only construction work done during the year, was Wolcott avenue, Lowell street and Main street. I will report each separately.

WOLCOTT AVENUE

There were added 900 yards to work done in 1919. This cost, \$1492.37, divided as follows:

Labor and teams	\$527.98
Stone	463.61
Freight	106.58
Tarvia	339.20
Use of roller	35.00
Ashes	20.00
	<hr/>
	\$1492.37

Or about \$1.67 per yard.

MAIN STREET

This work from Chapel avenue to the State road was taken over by the State Department of Public Works, and let out by contract. The Lane Construction Company of Meriden, Conn., did the work for the State, as well as setting curbing and changing manhole covers, etc., for the Town. The Town spent on this work \$11,806.81. The following will show the cost to the Town, divided as follows:—

State Dept. of Public Works	\$5600.00
Lane Construction Company	1283.95
Curbing, freight, and trucking	4341.75
Police duty	519.37
Trucking	61.74
	<hr/>
	\$11806.81

There were set 2481 feet curbing. The cost to the State Department covered the extra width of road which was necessary.

LOWELL STREET

Work was started on Wednesday, June 16, 1920, at station 14200 and was closed down for the year on November 15th, at station 20575, making 6575 of 18-foot roadway or about 12040 square yards, at a cost of \$37,500.00. The summary of approved bills will be shown in expenditure table. There is still available to start 1921 work, \$16,500.00. In order to complete this work during 1921, it will be necessary to have an appropriation of \$5000 from each State, County and Town this year. There still remain about 9600 yards to be done, and I hope this may be completed in one job during 1921.

BALLARDVALE DISTRICT

Many small repairs, such as cleaning gutters, catch basins and sidewalk work was all that was done in this section during 1920. Total spent in Ballardvale section with town team and Mr. Haggerty, \$1499.18. . At present there are two entrances to Ballardvale and whether you go Andover Street or Woburn street,

in the fall and spring, neither is passable, for a motor vehicle. I would recommend a tarvia road from where the present one stops, to the top of hill near the School House, on Andover Street, and that cinders be put on Woburn street, on what is called "The Plains," during 1921.

Recommendations:

MAINTENANCE	
Labor and teams	\$12000.00
Tarvia B, sand and gravel	5000.00
Sidewalks	2000.00
Gravel and ashes	4500.00
Snow	2000.00
Drains	1500.00
Bridges	1000.00
Keeping team and car	900.00
Miscellaneous	1100.00
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	\$30000.00

This is a very important question, if we are to continue building roads, which of course we must, for the moment you stop repairing and blanketing your roads the moment they start to go to pieces and it costs twice as much to repair them. Your cinder roads we are building in the outside districts must have the sides dug out so water will have a place to run; if not, why your road is the gutter and very soon your cinders are all down to the fields and brooks. The catch basins are increasing every year, and it costs more to keep these cleaned out. Your maintenance work is also getting toward the outskirts of the town and it costs for transportation back and forth. The appropriation is needed and will be needed for a great many years to keep things anywhere near normal.

CONSTRUCTION

Under this construction, we build what we term as permanent roads, and some sidewalk work. There are many roads to be built, some of which I will mention: Summer street, Andover street, Abbot street, Phillips street, Pearson street, Wolcott avenue, Whittier street.

Cinder roads in some of the outside sections where they will do for years are also charged up to this appropriation. I would recommend same appropriation as in 1920, \$30,000.00.

PARK DEPARTMENT

Appropriation, March 1920	\$1200.00
Expenditures	\$1506.93
	<hr/>
Overdrawn	\$306.93
Same appropriation will be necessary in 1921	\$1200.00

FINANCIAL STATEMENT

Appropriation March 1920:

Highway Department Maintenance	\$30000.00
Construction	30000.00
Lowell Street	5000.00
County, Lowell Street	12500.00
State, Lowell Street	12500.00
Credits	6368.78
Wolcott Avenue	1500.00
Overdrawn	3193.32
	<hr/>
	\$101062.10

Expenditures:

Maintenance	\$26297.02
Construction	22390.45
Lowell Street	37500.00
Snow	10833.65
Tools	123.98
Bridges	1025.40
Sidewalks	420.00
Drains	979.23
Wolcott Avenue	1492.37
	<hr/>
	\$101062.10

HIGHWAY EXPENDITURES, 1920

NAMES	Maintenance	Construction	Lowell Street	Snow and Tools	Bridges Sidewalks Trains	Totals
Payrolls, Labor and Teams	\$11753.55		\$16358.60	\$ 9153.76		\$37265.91
Boston and Maine, freight	655.68	399.94	3909.65			4965.27
Pacific Mills, ashes	1620.02	662.40	442.25			2724.67
John L. Morrison			47.05	44.75		91.80
Anderson and Bowman	50.50		27.50	35.35		113.35
Walter I. Morse	137.83		45.45	28.73		212.01
Barrett Mfg. Co., tarvia	4799.22		4652.48			9451.70
General Crushed Stone, stone	320.41		1522.68			1843.09
Essex Trap Rock, stone			5562.79			5562.79
Raymond L. Buchan	56.82		124.45			181.27
Gray and Kendall	61.48		57.23			118.71
John F. McDonough, teaming		1279.00				1279.00
Philip L. Hardy	389.48	2158.16	200.00		1394.80	4142.44
Joseph F. Cole		338.16			90.00	90.00
John H. Richardson, hay	82.56			21.75		420.72
Treat Hardware Co.	9.00			9.00		30.75
H. J. Stanchfield	30.80			37.00		39.80
Harold L. Rand				27.50	6.88	43.88
Frank Hardy						27.50
Buchan and McNally	58.45		6.44			64.89
Lane Construction Co.		1283.95				1283.95
H. E. Fletcher, curbing		4014.31				4014.31
Mass. Dept. Public Works		5600.00				5600.00
Andover Coal Co.	78.44	39.27				117.71
John Shea	440.57	148.21				588.78
W. F. Duffee and Co.		2967.05				2967.05
Buffalo Pitts Steam Roller	2005.00	3500.00				5505.00
Lowell Street						
Edward P. Hall	6.66		7.00		66.42	80.08

NAMES	Maintenance	Construction	Lowell Street	Snow and Tools	Bridges Sidewalks Drains	Totals
Davis Foundry Co.					204.00	204.00
New Eng. Metal Culvert Co.					662.53	662.53
Town of Andover (Highway Maint.)			1075.00			1075.00
Andover Water Dept.			343.32			343.32
W. F. Barron			12.50			12.50
C. L. Bailey			18.75			18.75
A. W. Cox			28.12			28.12
Cross Coal Co.	30.00		124.95			154.95
J. E. Pitman	274.67		2579.79			2854.46
John Brady			354.00			354.00
Edward S. Hardy				295.90		295.90
Cedar Farm Grove				2.00		2.00
James McGovern				18.30		18.30
M. M. Converse				137.50		137.50
Freeman Abbott				756.39		756.39
J. H. Campion . . . . .	.53			.94		1.47
Hood Farm				98.35		98.35
J. L. Harvey				60.65		60.65
Fire Dept.	1375.42			123.76		1499.18
Louis Belisle				16.00		16.00
Miss Jane Devlin				18.00		18.00
Daniel Webster				72.00		72.00
McKinnery Bros., horse	400.00					400.00
W. A. Trow, sand	19.25					19.25
John Cyr, sand	5.40					5.40
Ozoonian Badagain, sand	15.35					15.35
Herbert Lewis, sand	15.05					15.05
Bliss Western Farm	325.00					325.00
Sinclair Refining Co.	29.40					29.40
American Express	1.41					1.41
Thomas Dixon	25.00					25.00

NAMES	Maintenance	Construction	Lowell Street	Snow and Tools	Bridges Sidewalks Drains	Totals
Tyer Rubber Co.	25.50					25.50
Est. H. M. Eames	114.53					114.53
Converse Rubber Co.	41.90					41.90
F. L. Cole	30.00					30.00
Police Dept.	519.37					519.37
Good Roads Mach. Co.	14.23					14.23
New Eng. Sand and Gravel	70.89					70.89
Est. Dr. Winchester	9.00					9.00
H. B. McArdle	7.00					7.00
Samuel Ramsden	60.00					60.00
Fred Gould	36.63					36.63
H. I. Dallman	10.72					10.72
Charles Torry	83.86					83.86
Walter Coleman	29.37					29.37
W. C. Crowley	5.87					5.87
Andover Press	9.20					9.20
Arlington Mills	33.00					33.00
F. F. McDonald	123.00					123.00
	\$26297.02	\$22390.45	\$37500.00	\$10957.63	\$2424.63	\$99569.73
Wolcott Ave. Spent on Main St.				\$ 1492.37 \$11796.87		

COMPARATIVE STATISTICS

JANUARY 1, 1921

Year	Received from water rates	Net cost of maintenance	Cost of pumping	Cost per million gal'ns		Received per million gallons	Gallons pumped	No. of service pipes in use	meters in use	No. of h'd'nts	Miles of main pipe
				by total maintenance	by cost of pumping						
1889	Work commenced	.....	.....	.....	.....	.....	6 months	46	..	16	.....
1890	\$ 3106 38	2999 99	1776 21	52 85	27 97	82 81	24,911,445	309	80	163	20.50
1891	5349 32	3399 93	1806 93	40 77	25 53	68 42	64,595,597	462	122	165	21.50
1892	5977 41	3491 22	2185 83	24 08	23 13	73 46	85,618,190	542	171	174	22.37
1893	7647 95	3792 56	2408 20	36 42	23 13	73 46	104,123,285	601	204	178	23.50
1894	8378 44	4514 47	3354 04	38 31	28 47	71 27	117,847,305	654	237	178	23.53
1895	8648 15	4380 13	3151 33	37 32	26 87	71 81	117,354,950	706	278	180	24.00
1896	9052 31	4627 53	2557 61	37 47	20 71	78 79	123,476,542	752	326	184	24.12
1897	*8011 87	4336 58	2383 71	37 67	20 71	69 61	115,094,527	789	486	184	24.16
1898	7792 40	3662 43	2196 31	32 33	19 38	68 78	113,287,775	819	571	193	24.91
1899	9376 29	4471 04	2656 42	31 21	19 24	65 45	143,260,253	845	616	194	25.12
1900	10668 57	4915 23	3158 50	33 07	21 25	71 78	148,618,935	876	641	196	25.83
1901	*8941 83	7955 34	3430 35	45 44	19 59	51 00	175,062,920	897	670	196	25.84
1902	11805 21	5787 44	3035 47	40 59	25 63	100 01	118,031,451	934	701	205	29.69
1903	11563 79	7389 44	2922 36	55 52	21 96	86 89	133,085,521	958	722	219	30.17
1904	11818 53	6378 96	3004 34	44 25	20 84	81 98	144,164,563	981	757	221	30.49
1905	12409 79	7228 82	3426 98	44 03	20 87	75 60	164,150,879	1013	791	223	30.95
1906	13516 47	8121 39	3054 09	45 39	17 29	76 48	176,717,579	1036	813	224	31.03
1907	17267 86	8112 47	4825 63	33 34	19 94	75 48	242,025,757	1060	848	227	31.35
1908	14908 89	7419 65	3750 29	39 52	19 97	79 41	187,750,372	1101	884	257	35.22
1909	1640 21	7499 95	3967 72	36 96	19 55	81 16	202,885,885	1147	926	273	38.07
1910	17613 66	8378 32	4234 61	36 50	18 50	76 93	228,939,882	1187	977	290	40.81
1911	18515 99	7974 79	3584 62	39 21	17 62	91 03	203,401,371	1245	1023	321	44.34
1912	19687 47	8117 57	3583 45	39 58	17 48	95 99	205,097,460	1304	1081	344	46.99
1913	22739 88	8412 89	4471 18	36 84	19 58	96 58	228,344,927	1353	1146	351	47.70
1914	19614 00	10306 80	4434 65	43 86	18 86	83 47	234,973,550	1405	1195	364	49.64
1915	22451 01	9982 98	4464 45	42 49	18 55	93 32	†240,599,178	1465	1262	369	50.08
1916	23496 87	11998 60	4842 20	46 67	21 91	94 02	†220,945,880	1492	1290	377	51.19
1917	27870 82	11538 26	5460 42	52 95	25 06	113 72	†217,894,123	1503	1311	377	51.19
1918	27053 01	15838 48	10092 80	58 93	37 56	100 67	†268,733,008	1470	1328	378	51.19
1919	23864 58	18257 99	7093 30	83 64	37 72	91 46	†218,279,797	1521	1370	378	51.19
1920	31416 47	19924 11	9949 64	78 23	39 06	81 08	†254,727,887	1594	1460	378	51.19

* Regulations and rates changed.

† No allowance for slippage.

TOWN OF ANDOVER

ANNUAL REPORT

OF THE

Receipts and Expenditures



FOR THE FISCAL YEAR ENDING

DECEMBER 31, 1921

ANDOVER, MASS.
THE ANDOVER PRESS
1922

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TOWN OFFICERS 1921

Selectmen and Overseers of the Poor

WALTER S. DONALD, <i>Chairman</i>	Term expires	1923
CHARLES BOWMAN	" "	1924
ANDREW McTERNEN, <i>Secretary</i>	" "	1922

Assessors

WALTER S. DONALD, <i>Chairman</i>	Term expires	1923
CHARLES BOWMAN	" "	1924
ANDREW McTERNEN, <i>Secretary</i>	" "	1922

Town Clerk

GEORGE A. HIGGINS

Tax Collector

WILLIAM B. CHEEVER

Town Treasurer

GEORGE A. HIGGINS

School Committee

MARY B. SMITH	Term expires	1922
ROY H. BRADFORD	" "	1922
RALPH W. COLEMAN	" "	1922
ALFRED E. STEARNS	" "	1923
FREDERICK E. CHEEVER	" "	1923
EDWARD C. CONROY	" "	1923
EVERETT C. HILTON	" "	1924
MARY W. FRENCH	" "	1924
DAVID R. LAWSON	" "	1924

Superintendent of Schools

HENRY C. SANBORN

Board of Public Works and Sinking Fund Commission

ARTHUR T. BOUTWELL	Term expires	1922
BARNETT ROGERS	" "	1922
THOMAS E. RHODES	" "	1923
PHILIP L. HARDY	" "	1924
WILLIAM D. McINTYRE	" "	1924

Superintendent of Water, Sewer Department, Highways and Parks

FRANK L. COLE

Engineers of Fire Department

CHARLES F. EMERSON, *Chief*

LLEWELLYN D. POMEROY, *Clerk*

HARRY E. WELLS

Board of Health

CHARLES E. ABBOTT, M. D.	Term expires	1922
BANCROFT T. HAYNES	" "	1923
FRANKLIN H. STACEY	" "	1924

Chief of Police

FRANK M. SMITH

Constables

GEORGE W. MEARS	Term expires	1922
FRANK M. SMITH	" "	1922
THOMAS F. DAILEY	" "	1922

Trustees of Memorial Hall Library

CHARLES U. BELL	Term expires	1922
ALFRED E. STEARNS	" "	1923
BURTON S. FLAGG	" "	1924
E. KENDALL JENKINS	" "	1925
REV. FREDERICK A. WILSON	" "	1926
FREDERIC S. BOUTWELL	" "	1927
NATHAN C. HAMBLIN	" "	1928

Trustees of Punchard Free School — Terms expire 1922

FREDERIC S. BOUTWELL	MYRON E. GUTTERSON
HARRY H. NOYES	WILLIAM ODLIN
EDMOND E. HAMMOND	

Auditors

JOHN S. ROBERTSON WALTER H. COLEMAN
HARRY SELLARS

Trustees of Cornell Fund

CHARLES N. MARLAND	Term expires	1922
JOHN C. ANGUS	"	1923
DR. WILLIAM D. WALKER	"	1924

Superintendent of Moth Department

EDWARD H. BERRY

Tree Warden

EDWARD H. BERRY

Moderator of Town Meetings

ALFRED L. RIPLEY

Registrars of Voters

SAMUEL P. HULME	JOHN F. HURLEY
PATRICK J. SCOTT	GEORGE A. HIGGINS, <i>Clerk</i>

Trustees of Spring Grove Cemetery

WALTER I. MORSE	DANIEL H. POOR
GEORGE D. MILLETT	WARREN L. JOHNSON
FRED E. CHEEVER	DAVID R. LAWSON
JOHN W. STARK	

Street Lighting Committee

WALTER H. COLEMAN	HENRY J. GARDNER
FREDERIC G. MOORE	JOSEPH L. BURNS
FRED G. CHENEY	

Finance Committee

HENRY A. BODWELL, <i>Chairman</i>	GEORGE ABBOT
JOHN C. ANGUS, <i>Secretary</i>	J. HARRY CAMPION
EDWARD V. FRENCH	CHESTER W. HOLLAND
GEORGE L. AVERILL	

TOWN WARRANT

THE COMMONWEALTH OF MASSACHUSETTS

ESSEX, ss.: To either of the Constables of the Town of Andover: GREETING.

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in town affairs to meet and assemble at the Town House, in said Andover, on MONDAY, the SEVENTH DAY OF MARCH, 1921, at 6 o'clock a.m., to act on the following articles:

Article 1. — To choose a Moderator for one year, Town Clerk for one year, Treasurer for one year, Collector of Taxes for one year, one member of the Board of Selectmen for three years, one member of the Board of Assessors for three years, three members of the School Committee for three years, two members of the Board of Public Works for three years, one member of the Board of Health for three years, three Auditors of Accounts for one year, three Constables for one year, one Trustee of Memorial Hall Library for seven years, one Tree Warden for one year, one Trustee of Cornell Fund for three years, two Trustees of Punchard Free School for one year, and any other officers the town may determine to choose.

Article 2. — To take action on the following question, Shall licenses be granted for the sale of certain non-intoxicating beverages in this town?

Article 3. — To determine what sums of money shall be appropriated for Almshouse Expenses, Repairs on Almshouse, Relief out of Almshouse, Aiding Mothers with Dependent Children, Board of Health, Brush Fires,* Fire Department, Hay Scales,

Highway Department, Insurance, Interest, Memorial Hall Library, Memorial Day, Post 99, G. A. R., Miscellaneous, Parks and Playsteads, Police, Printing and Stationery, Public Dump, Retirement of Veterans, Redemption of Water, Sewer, and High School Bonds, Schools, Sewer Maintenance, Sewer Sinking Funds, Soldiers' Relief, Spring Grove Cemetery, State Aid, Street Lighting, Town Officers, Town House, Tree Warden, Moth Department, Water Maintenance, Construction and Sinking Funds, and other town charges and expenses.

Article 4. — To see if the Town will vote to build a main sewer on Poor Street and North Main Street, a distance of about 1800 feet, and appropriate the sum of \$3500 for same. Work to be done under the direction of the Board of Public Works, and to assess betterments upon the estates benefited by said extension, on petition of Carl L. Svenson and others.

Article 5. — To see if the Town will vote to build a sewer from Main Street, westerly through Lowell Street as far as the house of Richard Ward, and appropriate a sum of money therefor, on petition of Walter M. Lamont and others.

Article 6. — To see if the Town will vote to build a sewer through Haverhill Street from the present sewer at the intersection of York Street, easterly for a distance of about 2300 feet to a point at or near Stirling Street, and appropriate a sum of money therefor on petition of John Traynor and others.

Article 7. — To see if the town will accept and adopt as a part of its sewage system, certain sewers constructed in Shawsheen Village, so called, as follows: — A ten inch sewer on Haverhill Street extending from the Main Sewer west of the Haverhill Street bridge to the centre of York Street and an eight inch sewer on North Main Street starting at a point at or near the property of Dr. George B. Elliott and running southerly along North Main Street and connecting with the Main sewer; also when completed the sewage pumping station at Shawsheen Village and the 12 inch main extending to the filter beds.

Article 8. — To see if the Town will authorize the Board of Public Works to make investigations and report at the next An-

nual Meeting on a system of sewage disposal and appropriate the sum of one thousand dollars to defray the expenses of such investigation, on petition of the Board of Public Works.

Article 9. — To see if the Town will authorize the Board of Public Works to expend the amount of money now in the treasury to the credit of the Water Loan for the purpose of relaying pipes and making small extensions, on petition of the Board of Public Works.

Article 10. — To see if the Town will authorize the Board of Public Works to extend the water main from the residence of Charles G. E. Anderson, Ballardvale Road, to Edward Dimmock, and appropriate a sum of money therefor, on petition of Charles G. E. Anderson and others.

Article 11. — To see if the Town will appropriate a sum not exceeding \$5000, to complete the macadam on Lowell Street; the same to equal an amount which the State and County will severally appropriate, on petition of the Board of Public Works.

Article 12. — To hear and act on the report of the committee appointed to consider the sale of the Andover Town Farm, or change in method of operating the same.

Article 13. — To hear and act upon the report of the committee appointed to consider the question of a suitable memorial to citizens of Andover who served in the World War, the questions for consideration to be as follows:

(a) Will the town approve the recommendation that the said memorial shall take the form of a new civic centre on the land bounded by Main Street, Chestnut Street, Bartlet Street and Punchard Avenue?

(b) Will the town authorize the Selectmen to petition the General Court for authority to appropriate, outside of the debt limit now authorized by law, a sum of money not exceeding \$300,000, to be used for the purpose of acquiring and improving said area, and the erection of such buildings as shall be authorized?

(c) Will the town authorize the appointment of a committee of seven citizens to be known as a "Committee on War Memorial and Civic Centre," to make a study of all conditions involved in a proper development of such a civic centre, prepare plans for a beginning of the undertaking, to include the immediate construction of a new town building, designed to be later supplemented by such other development as the town may from time to time authorize, and to further consider and act upon any matters relating to the question?

Article 14. — To hear and act on the report of the Board of Public Works as to its conclusions and recommendations on the status of the Water Department, covering the question of rates, charges for fire service and other public services, and the advisability of having this Department operated as a self-supporting Department.

Article 15. — To see if the town will accept as a town way, as laid out by the Selectmen, the street now known as Warwick Street in Shawsheen Village, so called, running from a point on North Main Street northerly about eleven hundred (1100) feet from the Post Office and westerly to Poor Street, on petition of William M. Wood and others.

Article 16. — To see if the town will accept as a town way, as laid out by the Selectmen, the street now known as Windsor Street in Shawsheen Village, so called, running from a point on North Main Street northerly about seven hundred (700) feet from the Post Office and westerly to Poor Street, opposite the residence of Henry Todd, on petition of William M. Wood and others.

Article 17. — To see if the Town will accept as a town way, as laid out by the Selectmen, the street known as Canterbury Street in Shawsheen Village, so called, from a point south of 59 Lowell Street, westerly six hundred (600) feet to an open lot, on petition of William M. Wood and others.

Article 18. — To see if the town will accept as a town way, as laid out by the Selectmen, the street known as Balmoral Street in Shawsheen Village, so called, from a point on North Main Street about five hundred (500) feet southerly from the Post Office to Burnham Road, on petition of William M. Wood and others.

Article 19. — To see whether the Town will vote to instruct the Selectmen to release a certain right of way for the maintenance of drainage pipes over the premises of Albert L. Hall and Clyde A. White, located on the northerly side of Park Street, in said Andover, upon such terms and conditions as may be acceptable to the Board of Selectmen and to the Board of Public Works, on petition of Albert L. Hall and others.

Article 20. — To see if the Town will appropriate the sum of \$2000, to place fire escapes on and otherwise put in a suitable condition the Old Schoolhouse building in Ballardvale to comply with the regulations and orders of the Building Inspectors' Department of the State Police.

Article 21. — To see if the Town will appropriate the sum of \$6000 for tearing down and reconstructing the tomb in Spring Grove Cemetery, on petition of the Board of Trustees.

Article 22. — To see if the Town will authorize the Selectmen to dispose of the Steam Fire Engine now located in the Central Fire Station.

Article 23. — To see if the Town will appropriate a sum of money to place an electric light on Salem Street between Prospect Hill Road and the Woodbridge Cider Mill, on petition of Ernest A. Braddon and others.

Article 24. — To see if the town will appropriate a sum of money for an electric light in front of the Tyer Rubber Company, on petition of Dionisio Michelini and others.

Article 25. — To see if the Town will appropriate a sum of money to place a fire alarm box at or near the junction of Salem

Street and Prospect Hill Road, on petition of Ernest A. Braddon and others.

Article 26. — To see if the town will accept the provisions of General Laws, Chapter 94, Section 120, as follows: —

“In towns having less than ten thousand inhabitants which accept this Section or have accepted corresponding provisions of earlier laws at any Annual Town Meeting, the annual license fee for carrying on the business of slaughtering neat cattle, sheep or swine shall be such sum not exceeding one hundred dollars as the selectmen fix, on petition of the Board of Health.”

Article 27. — To see if the Town will name as Chestnut Lane the town way leading from River Road at a point east of the Shattuck Farm past the property of Jane Devlin.

Article 28. — To see what action the Town will take in regard to a certain fund left by the late Anna Holt for the benefit of the Scotland District School and held in trust by Brooks F. Holt.

Article 29. — To see if the Town will accept as a gift from the late Edward R. Lemon, a native of Andover, an oil painting of “Washington at Monmouth” and a bust of Longfellow.

Article 30. — To fix the pay of the call firemen for the ensuing year.

Article 31. — To determine the method of collecting the taxes for the ensuing year.

Article 32. — To authorize the Town Treasurer to hire money for the use of the town in anticipation of the revenue of the current financial year, with the approval of the Selectmen.

Article 33. — To determine what disposition shall be made of unexpended appropriations.

Article 34. — To act upon the report of the Town Officers.

Article 35. — To determine the amount of money to be raised by taxation the ensuing year.

Article 36. — To transact any other business that may legally come before the meeting.

The polls will be open from 6 o'clock a.m. to 5 o'clock p.m.

And you are directed to serve this warrant by posting attested copies and publication thereof, seven days at least before the time of said meeting as directed by the By-Laws of the town.

Hereof fail not and make return of this warrant with your doings thereon, at the time and place of said meeting.

Given under our hands this twenty-third day of February, A.D. 1921.

WALTER S. DONALD
CHARLES BOWMAN
ANDREW McTERNEN

Selectmen of Andover

ANDOVER, MARCH 7th, 1921.

ESSEX, SS.

Pursuant to the foregoing warrant, I, the subscriber, one of the Constables of the Town of Andover, have notified the inhabitants of said town to meet at the time and place and for the purposes stated in said warrant by posting a true and attested copy of the same on the Town House, on each schoolhouse and in no less than five other public places, where bills and notices are usually posted, and by publication in the Andover Townsman. Said warrants have been posted and published seven days.

FRANK M. SMITH,
Constable

ANNUAL TOWN MEETING, MARCH 7, 1921

At a legal meeting of the inhabitants of the Town of Andover qualified to vote in town affairs convened in the Town House in said Andover on Monday the Seventh day of March 1921 at six o'clock in the forenoon, agreeably to the requirements of the foregoing warrant, Moderator Alfred L. Ripley presided and after reading a part of the warrant, it was voted to dispense with the further reading of the warrant.

Voted, To take up Articles 1 and 2 and proceeded to vote for Town Officers and on the Liquor License question by the Australian Ballot System.

The ballot box was found to be empty and registered 0000. The polls opened at 6 o'clock a.m., and closed at 5 o'clock p.m. The total number of ballots cast was 843.

The result of the balloting was as follows:—

MODERATOR — One year:	
Alfred L. Ripley	687
Blanks	156
TOWN CLERK — One Year:	
George A. Higgins	709
Blanks	134
TOWN TREASURER — One Year:	
George A. Higgins	697
Blanks	146
SELECTMEN — Three Years:	
Charles Bowman	705
Blanks	138
ASSESSOR — Three Years:	
Charles Bowman	673
Blanks	170

COLLECTOR OF TAXES — One Year:	
William B. Cheever	700
Blanks	143
SCHOOL COMMITTEE — Three Years	
Mary W. French	652
Everett C. Hilton	646
David R. Lawson	649
Blanks	582
TRUSTEE PUNCHARD FREE SCHOOL — One year (to fill vacancies)	
William Odlin	623
Edmond E. Hammond	629
Blanks	434
BOARD OF PUBLIC WORKS AND SINKING FUND COMMISSION —	
Three years:	
Philip L. Hardy	674
William D. McIntyre	629
Blanks	383
BOARD OF HEALTH — Three Years:	
Franklin H. Stacey	596
John Traynor	1
Blanks	246
AUDITORS OF ACCOUNTS — One Year:	
Walter H. Coleman	642
John S. Robertson	666
Harry Sellars	646
Blanks	575
TRUSTEE OF MEMORIAL HALL LIBRARY — Seven Years:	
Nathan C. Hamblin	650
Blanks	193
CONSTABLES — One Year:	
Thomas F. Dailey	393
George W. Mears	524
Frank M. Smith	575
George N. Sparks	522
Blanks	515

TREE WARDEN — One year:

Edward H. Berry 665

Blanks 178

Shall Licenses be granted for the sale of certain non-intoxicating beverages in this town?

Yes 323

No 451

Blanks 69

All the foregoing officers and questions were voted on by ballot and the check lists were used.

REPORT OF THE PRECINCT CLERK

ANDOVER, MASS., March 7th, 1921.

Polls opened at 6 a.m. Warden George L. Averill in charge. Polls closed at 5 p.m. Ballot Box registered at opening 0000. Ballot Box registered when closed 843. Number of ballots received 3851. Number of ballots cast 843. Number of ballots returned to Town Clerk 3008.

MARK M. KEANE, *Clerk*

The Moderator declared:

Alfred L. Ripley elected Moderator for one year.

George A. Higgins elected Town Clerk for one year.

George A. Higgins elected Town Treasurer for one year.

Charles Bowman elected Selectman for three years.

Charles Bowman elected Assessor for Three years.

William B. Cheever elected Collector of Taxes for one year.

Mary W. French elected School Committee for three years.

Everett C. Hilton elected School Committee for three years.

David R. Lawson elected School Committee for three years.

William Odlin elected Trustee Punchard Free School for one year.

Edmond E. Hammond elected Trustee Free School for one year.

Philip L. Hardy elected Board of Public Works, and Sinking Fund Commission for three years.

William D. McIntyre elected Board of Public Works and Sinking Fund Commission for three years.

Franklin H. Stacey elected Board of Health for three years.

Walter H. Coleman elected Auditor of Accounts for one year.

John S. Robertson elected Auditor of Accounts for one year.

Harry Sellars elected Auditor of Accounts for one year.

George N. Sparks elected Constable for one year.

George W. Mears elected Constable for one year.

Frank M. Smith elected Constable for one year.

Nathan C. Hamblin elected Trustee of Memorial Hall Library for seven years.

Edward H. Berry elected Tree Warden for one year.

Chose Trustee of Cornell Fund for three years:—W. Dacre Walker.

Chose Street Lighting Committee for one year (appointed by Moderator): Walter H. Coleman, Fred G. Cheney, Henry J. Gardner, Joseph L. Burns, Frederic G. Moore.

Chose Finance Committee for one year (appointed by Moderator): George Abbot, Henry A. Bodwell, John H. Campion, Edward V. French, Chester W. Holland, John C. Angus, George L. Averill.

Voted at 5.10 p.m. that the meeting be adjourned to Monday, March 14, 1921 at 2 o'clock p.m.

2 O'CLOCK P. M. MONDAY, MARCH 14th, 1921.

Took up Article 3.

Voted — To appropriate the following stated sums of money:—

Almshouse	\$ 5000.00
Almshouse repairs	300.00
Almshouse — Relief out	4000.00
Aiding Mothers with Dependent children	2500.00
Board of Health	3000.00
Brush Fires	600.00
Fire Department	23000.00
Hay Scales	125.00
Highway Department	
Maintenance	30000.00
New Construction	30000.00
Fire Insurance	3000.00
Workmen's Compensation	2500.00
Interest	17500.00
Library	3000.00
Memorial Day	600.00
G. A. R.	100.00
Miscellaneous	3000.00
Parks and Playsteads	1200.00
Police	9000.00
Printing and Stationery	1800.00
Public Dump	75.00
Retirement of Veterans	300.00
Retirement of Bonds	
Water	8000.00
Punchard School	6000.00
Sewer	6141.78
Schools	103475.00
Sewer Department	
Labor and Power	3000.00
Sinking Fund	1000.00
Soldier's Relief	1500.00

Amount carried froward

\$269716.78

<i>Amount brought forward</i>	\$269716.78
Spring Grove Cemetery (and receipts)	1500.00
State Aid	1000.00
Street Lighting	7900.00

Voted, that the Street Lighting Committee be instructed and authorized to execute a new contract for lighting the streets of Andover with the Lawrence Gas Company for a term not exceeding three years and on the best terms possible to obtain.

Town Officers	8900.00
Town House	3000.00
Tree Warden and Moth Work	7000.00
Water Department	20750.00
Article 4 — (Poor Street Sewer)	3500.00
Article 6 — (Haverhill Street Sewer)	8750.00
Article 8 — (Board of Public Works)	1000.00
Article 11 — (Lowell Street)	5000.00
Article 13 — (War Memorial)	2000.00
Article 20 — (B. V. Schoolhouse)	2000.00
Article 21 — (Tomb)	6000.00

\$348016.78

State Tax and Highway Tax (estimate)	35000.00
County Tax (estimate)	16000.00

\$399016.78

Took up Article 4.

Voted, That Articles 4, 5, and 6 be laid on the table until after the consideration of Article 7.

Took up Article 7.

Voted, at 3.17 p.m., That the town accept and adopt as a part of its sewerage system the sewers named in this article as the same are shown on a plan entitled "Plan showing Shawsheen Village Sewerage System" drawn by John Franklin, C. E. 1920 and approved by the State Board of Health August 26th, 1920.

Said plan has also been approved by the board of Public Works and is on file in the office of said board.

Took up Article 4.

Voted, at 3.35 p.m., That the town build a main sewer on Poor Street and North Main Street, a distance of about 1800 feet and appropriate the sum of \$3500. for the same. Work to be done under the direction of the Board of Public Works, and to assess betterments upon the estates benefited by said extension.

Took up Article 5.

Voted, at 3.36 p.m., That it be stricken from the warrant.

Took up Article 6.

Voted, at 3.38 p.m., To build a sewer through Haverhill Street from the present sewer at the intersection of York Street, easterly for a distance of about 2300 feet to a point at or near Stirling Street and appropriate the sum of \$8750. for the same; also to assess betterments on the estates benefited by said extension.

Took up Article 8.

Voted, at 3.47 p.m., To authorize the Board of Public Works to make investigations and report at the next annual town meeting on a system of sewage disposal and to appropriate the sum of \$1000 to defray the expenses of such investigation.

Took up Article 9.

Voted, at 3.48 p.m., To authorize the Board of Public Works to expend the money in the Treasury to the credit of the Water Loan for the purpose of relaying pipes and making small extensions.

Took up Article 10.

Voted, at 4.05 p.m., That the Board of Public Works be instructed to extend the water main from the residence of Charles R. E. Anderson, Ballard Vale Road to the residence of Edward Dimmock, the expense of same to be paid out of available funds received under Article 9.

Took up Article 11.

Voted, at 4.06 p.m., That the town appropriate a sum not exceeding \$5000. to complete the macadam on Lowell Street; the

same to equal an amount which the State and County will severally appropriate.

Took up Article 12.

Voted, at 4.09 p.m., That the report of the committee on the Town Farm be accepted and adopted and that the Selectmen be authorized to offer at public sale all of the surplus land not needed for the improvements suggested in their report, and that they also be authorized to expend out of the amount secured from the sale such money as may be necessary to satisfactorily remodel and improve the present main town farm building.

Took up Article 13.

Voted, at 5.44 p.m., That it is the sense of this meeting that the town adopt the policy of creating a worthy memorial to citizens of Andover who served in the World War.

That a committee of seven citizens be appointed to consider plans for the taking of a suitable site to provide for the construction of a memorial to be so located as to possibly form a part of a civic centre with such further additions and improvements as may be hereafter approved by the vote of the town.

That said committee shall be authorized to present at the next annual town meeting the result of its studies, together with definite recommendations for financing all or a part of the completed plan.

That said committee shall be authorized to petition the General Court of 1922 for such legislation as may be necessary to carry out the plan it may recommend, said legislation to be effective only upon the adoption and approval of same by a vote of the citizens of the town at an annual town meeting in 1922 or 1923.

For the purposes of making studies, determining costs, and carrying on other investigations, there is appropriated for use of the committee the sum of \$2000. The Moderator appointed *John N. Cole, John F. O'Connell, Burton S. Flagg, C. H. Forbes, Henry A. Bodwell, E. V. French, E. Barton Chapin. *Walter M. Lamont to succeed John N. Cole, resigned.

Took up Article 14.

Voted, at 5.58 p.m., To accept and adopt the report of the Board of Public Works (printed in full in annual report of Board of Public Works pages 10-15) as to its conclusions and recommendations on the status of the Water Department covering the question of rates, charges for fire service and other public services, and the advisability of having this Department operate as a self-supporting Department.

Took up Article 15.

Voted, to take up Articles 15, 16, 17 and 18 together and

Voted, at 5.59 p.m., To accept as town ways the following named streets in Shawsheen Village, so called, as laid out by the Selectmen;

Warwick Street running from a point on North Main Street northerly about eleven hundred (1100) feet from the Post Office and westerly to Poor Street;

Windsor Street running from a point on North Main Street northerly about seven hundred (700) feet from the Post Office and westerly to Poor Street, opposite the residence of Henry Todd;

Canterbury Street from a point south of 59 Lowell Street, westerly six hundred (600) feet to an open lot.

Balmoral Street from a point on North Main Street about five hundred (500) feet southerly from the Post Office to Burnham Road.

Took up Article 19.

Voted, at 6 p.m., That article be stricken from warrant.

Took up Article 20.

Voted, at 6.02 p.m., To appropriate the sum of \$2000. to place fire escapes on and otherwise put in a suitable condition the Old Schoolhouse building in Ballard Vale.

Took up Article 21.

Voted, at 6.05 p.m., To appropriate the sum of \$6000. for the purpose of tearing down and reconstructing the tomb in Spring Grove Cemetery.

Took up Article 22.

Voted, at 6.07 p.m., To authorize the Selectmen to dispose of the Steam Fire Engine located in the Central Fire Station.

Took up Articles 23-24.

Voted, at 6.08 p.m., To take up these articles together and that they be referred to the Street Lighting Committee.

Took up Article 25.

Voted, at 6.10 p.m., To refer to the Board of Selectmen with power to act.

Took up Article 26.

Voted at 6.12 p.m., To accept the provisions of General Laws, Chapter 94. Section 120, as follows:—

“In towns having less than ten thousand inhabitants which accept this Section or have accepted corresponding provisions of earlier laws at any Annual Town Meeting, the annual license fee for carrying on the business of slaughtering meat cattle, sheep or swine shall be such sum not exceeding one hundred dollars as the selectmen fix”.

Took up Article 27.

Voted, at 6.13 p.m., To name as Chestnut Lane the town way leading from River Road at a point east of the Shattuck Farm past the property of Jane Devlin.

Took up Article 28.

Voted, at 6.14 p.m., That the town accept the fund left by the late Anna Holt and that the income from said fund be applied for the benefit of the John Dove and Stowe Schools, where pupils of the Scotland District attend.

Took up Article 29.

Voted at 6.17 p.m., To accept as a gift from the late Edward R. Lemon, a native of Andover, an oil painting of “Washington at Monmouth” and a bust of Longfellow and that the Town Clerk be instructed to extend the thanks of the citizens in town meeting assembled to Mrs. Lemon for these gifts.

Took up Article 30.

Voted, at 6.19 p.m., That the pay of the call firemen at the Central Fire Station be \$150. per year and at the station in Ballard Vale, \$75.

Took up Article 31.

Voted, at 6.20 p.m., That the taxes be collected by the Collector, that he receive a salary of \$1800. per year, and that interest be charged at the rate of six per cent per annum from October 15 on all taxes remaining unpaid after November 1st.

Took up Article 32.

Voted, at 6.21 p.m., That the Town Treasurer, with the approval of the Selectmen, be and hereby is authorized to borrow money from time to time in anticipation of the revenue of the financial year beginning January 1, 1921 and to issue a note or notes therefor, payable within one year, any debt or debts incurred under this vote to be paid from the revenue of said financial year.

Took up Article 33.

Voted, at 6.22 p.m., That all unexpended appropriations be turned into the treasury.

Took up Article 34.

Voted, at 6.23 p.m., That the report of the Town Officers be accepted.

Took up Article 35.

Voted, at 6.24 p.m., To raise by taxation \$258,000 and also an amount sufficient to meet the State and County taxes after deducting receipts from the State Income Tax.

Took up Article 36.

Voted, at 6.25 p.m., That the meeting be dissolved.

The foregoing is a true copy of the warrant and of the Officers return on the same, also a true record of the doings of the regular and adjourned meetings.

Attest:

GEORGE A. HIGGINS, *Town Clerk*

SPECIAL TOWN MEETING, NOVEMBER 20, 1921, WARRANT

THE COMMONWEALTH OF MASSACHUSETTS

ESSEX, ss.: To either of the Constables of the Town of Andover,
GREETING:

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in town affairs to meet and assemble at the Town House in said Andover, on TUESDAY, the FIRST DAY OF NOVEMBER, 1921, at 7.30 o'clock p.m., to act on the following articles:

Article 1. — To hear and act upon a certain proposal to be submitted to said meeting by William M. Wood for the purchase of the remainder of the Town Farm property on petition of William M. Wood and others.

Article 2. — To see if the Town will vote to appropriate the sum of five thousand (\$5000) dollars for the purpose of extending the sewerage system from the main trunk line on Haverhill Street up Lowell Street to Canterbury Street, a distance of about 2000 feet, and to assess betterments upon the estates benefited by said extension, on petition of the Board of Health.

Article 3. — To see if the Town will vote to accept the provisions of Section 20, Chapter 39 of the General Laws, relative to precinct voting and the holding of the annual town meeting.

Article 4. — To act on any other business that may legally come before the meeting.

And you are directed to serve this warrant by posting attested copies and publication thereof seven days at least before the time of said meeting as directed by the By-Laws of the town.

Hereof fail not and make return of this warrant with your doings thereon at the time and place of said meeting.

Given under our hands this Twentieth day of October, A.D. 1921.

WALTER S. DONALD
CHARLES BOWMAN
ANDREW McTERNEN

Selectmen of Andover

ANDOVER, NOVEMBER 1st, 1921

ESSEX, SS.

Pursuant to the foregoing warrant, I, the subscriber, one of the Constables of the Town of Andover, have notified the inhabitants of said town to meet at the time and place and for the purposes stated in said warrant by posting a true and attested copy of the same on the Town House, on each schoolhouse and in no less than five other public places, where bills and notices are usually posted, and by publication in the Andover Townsman. Said warrants have been posted and published seven days.

FRANK M. SMITH

Constable

At a legal meeting of the inhabitants of the Town of Andover qualified to vote in town affairs convened in the Town House in said Andover on Tuesday, the first day of November, 1921 at 7.30 o'clock in the evening, agreeably to the requirements of the foregoing warrant, Moderator Alfred L. Ripley presided and read the warrant.

Took up Article 1.

Voted, at 7.45 p.m., That the town accept the following proposal submitted by William M. Wood, for the purchase of the remainder of the Town Farm property; "The Board of Directors of the American Woolen Company offers the sum of Fifteen Thousand (\$15000.) dollars for the remainder of the land and buildings known as the Town of Andover Poor Farm situated in

Shawsheen Village west of the Boston & Maine Railroad tracks in said Andover. It being understood that the buildings may be occupied and used by the Town until provision can be made for the removal of the inmates not later than October 1, 1922. The vote stood 107 for and 8 against acceptance.

Took up Article 2.

Voted, at 7.52 p.m., That the town appropriate the sum of five thousand (5000.) dollars for the purpose of extending the sewerage system from the main trunk line on Haverhill Street up Lowell Street to Canterbury Street, a distance of about 2000 feet and assess betterments upon the estates benefited by said extension in accordance with the provisions of the Statutes governing the assessment of betterments in Andover. Also that the Town Treasurer, with the approval of the Selectmen, be authorized to borrow the sum of \$5000, the same to be paid from the tax levy of 1922.

Took up Article 3.

Voted, at 7.55 p.m., To accept the provisions of Section 20, Chapter 39 of the General Laws, relative to precinct voting and the holding of the annual town meeting.

Took up Article 4.

Voted, at 7.57 p.m., That the Selectmen be requested to consider the need of establishing additional voting precincts in the town. If they decide that the same should be established before the next annual town election they are requested to report relative therewith their recommendations, to a special town meeting to be held not later than February 1, 1922. If said report is not made to such special meeting it is to be made to the next annual town meeting.

Voted, at 7.59 p.m., That the school committee be requested to make a survey of school conditions in Shawsheen Village covering present school population and school house accommodations; also such further study as is necessary to properly anticipate and provide for public school needs of that section of the

town, and report the result of such survey and study to the next Annual Town Meeting.

Voted at 8.05 p.m., That the Moderator appoint a Committee of five to consider the matter of Representative Town Meetings and report at the next Annual Town Meeting; the Moderator appointed the following Committee: Dr. Charles E. Abbott, B. H. Hayes, Joseph L. Burns, George L. Averill, George A. Higgins.

Voted, at 8.14 p.m., That the Selectmen be a committee to consider ways and means for housing the inmates of the Town Farm; that they have power to add two other persons to the committee, and that \$300. be allowed for necessary expenses, the result of their investigations to be reported at the next Annual town meeting.

Voted, at 8.15 p.m., That the meeting be dissolved.

The foregoing is a true copy of the warrant and of the officers' return on the same, also a true record of the doings of the meeting.

Attest:·

GEORGE A. HIGGINS, *Town Clerk*

SELECTMEN'S REPORT

SCHOOLS

GENERAL EXPENSE

Salaries:

Superintendent	\$3800.00		
Attendance Officer	100.00		
Clerk	574.90		
		<u>\$4474.90</u>	
Miscellaneous	133.01	133.01	
			<u>4607.91</u>

EXPENSES OF INSTRUCTION

Supervisors:

Salaries	4014.27		
Travelling Expenses	102.92		
		<u></u>	4117.19

Teachers:

High	14661.36		
Elementary	44164.81		
		<u></u>	58826.17

Textbooks:

High	1266.65		
Elementary	1469.82		
		<u></u>	2736.47

Supplies:

High	1328.40		
Elementary	1358.32		
		<u></u>	2686.72

<i>Amount carried forward</i>			<u>\$723974.46</u>
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EXPENSES OF OPERATION

<i>Amount brought forward</i>	\$72974.46
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Janitors	6916.20	
Fuel	5851.11	
Miscellaneous	854.27	
	13621.58	

MAINTENANCE

Repairs	3871.72	
	3871.72	

AUXILIARY AGENCIES

Health	1316.45	
Transportation	5820.55	
	7137.00	

MISCELLANEOUS

Tuition	673.30	
Sundries	1118.65	
	1791.95	

NEW EQUIPMENT

New Equipment	1891.89	1891.89
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SUMMARY OF RECEIPTS AND EXPENDITURES

Appropriation	\$103475.00	
Total Expenditures	101288.60	
Balance		\$2186.40

TOWN OFFICERS

Appropriation, March 7, 1921		\$8900.00
Walter S. Donald, Chairman Selectman & Assessor	\$900.00	
Charles Bowman, Selectman & Assessor	800.00	
Andrew McTernen, Selectman & Assessor	800.00	
George A. Higgins, Town Clerk	1200.00	
George A. Higgins, Town Treasurer	1200.00	
William B. Cheever, Tax Collector	1800.00	
William C. Crowley, Sealer, weights and measures	206.26	
Joseph I. Pitman, Building Inspector	499.94	
J. J. Daly, Town Physician	200.00	
Smart & Flagg Agents, Surety Bonds	180.00	
D. J. Murphy, Town Counsel	375.00	
W. H. Coleman, Auditor	95.83	
John S. Robertson, Auditor	95.83	
Harry Sellars, Auditor	95.83	
Election Officers, Prec. No. 1	107.50	
Registrar of Voters	57.00	
Alvah P. Wright, Field Driver	25.00	
Alfred L. Ripley, Moderator	10.00	
Total expenditure	\$8648.19	
Balance	251.81	
	\$8900.00	\$8900.00

TOWN HOUSE

Appropriation, March 7, 1921

\$3000.00

George W. Mears, janitor	\$836.00
Lawrence Gas Co., lighting	351.24
C. A. Hill & Co., elec. supplies	68.80
Andover Coal Co., fuel	890.45
Gray and Kendall, repairs	99.72
C. S. Buchan, awnings and repairs	67.05
M. T. Walsh, plumbing repairs	78.36
Daniel P. Webster, police duty at Town House	59.50
David M. May, police duty	39.50
James W. Walker, police duty	12.00
Charles Shorten, police duty	3.00
James Holt, repairs	65.55
Walter I. Morse, supplies	39.95
H. I. Dallman Co., mops, cheese cloth, etc.	56.73
Cheshire Chemical Co., dust void	18.00
Knipe Brothers, labor and repairs	31.97
J. W. Richardson, repairs	29.96
Annie F. Borwon, laundry	4.74
Anderson & Bowman, repairing	1.55
C. F. Emerson, carting	17.50
Peoples' Ice Co., ice	22.00
William C. Brown	16.00
Ralph Berry, lettering doors	31.50
W. H. Sylvester, tuning piano	3.00
E. T. Hethrington, salt and bon ami	1.10
Holden Brothers, painting	8.40
American Railway Express Co., express	.87

Amount carried forward

\$2854.44

<i>Amount brought forward</i>		\$2854.44
Beach Soap Co., powder and soap	6.10	
Treat Hardware Corp., steel wool	.60	
"The Whatnot", supplies	.20	
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Total expenditure	\$2861.34	
Balance	138.66	
	<hr/>	<hr/>
	\$3000.00	\$3000.00

FIRE DEPARTMENT

Fire Department		
Appropriation, March 7, 1921		\$23000.00
Earnings Dept. teams		1643.25
Salaries, engineers	\$800.00	
Wages, permanent men	11236.87	
Wages, call men	3200.00	
Wages, fire alarm	539.50	
Horses and care of same	1237.02	
Equipment and repairs	3107.39	
Fuel and light	1076.67	
Maintenance of buildings and grounds	518.44	
Fire alarm	2346.07	
Miscellaneous expenses	463.10	
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Total expenditure	24525.06	
Balance	118.19	
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	\$24643.25	<hr/>
		\$24643.25

BRUSH FIRES

Appropriation, March 7, 1921		\$600.00
Cash		6.00
Brush Fire Pay Rolls	\$570.00	
Geo. H. Hadley Co., soda	19.60	
A. Lee Co., soda	24.45	
Badger Fire Extinguisher Co., supplies	2.40	
State Forestry Dept., shovels	17.50	
Boston-Lawrence Despatch, express	3.32	
Joseph C. Terry	6.50	
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Total expenditure	\$643.77	
Overdrawn		37.77
	<hr/>	<hr/>
	\$643.77	\$643.77

POLICE DEPARTMENT

Appropriation, March 7, 1921		\$9000.00
Salary, chief	1872.00	
Pay roll, patrolmen	5892.00	
Wages, specials	962.96	
Automobile hire	472.00	
Equipment and repairs	157.34	
Telephones	135.58	
Miscellaneous expenses	189.41	
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Total expenditure	9681.29	
Overdrawn		681.29
	<hr/>	<hr/>
	\$9681.29	\$9681.29

BOARD OF HEALTH

Appropriation, March 7, 1921		\$3000.00
C. E. Abbott, M. D., salary Board of Health	\$ 75.00	
C. E. Abbott, M. D., fumigating	104.00	
B. T. Haynes, salary	50.00	
B. T. Haynes, fumigating	21.20	
F. H. Stacey, salary Board of Health	50.00	
F. H. Stacey, Milk Inspector	75.00	
F. H. Stacey, expenses	43.50	
Charles H. Newton, Inspector	550.00	
Lotta Johnson, Nurse and Clerk	1150.00	
Lotta Johnson, Inspector	166.66	
Lotta Johnson, expenses and use of car	265.05	
City of Lawrence, Board	94.50	
Lakeville State Sanatorium, Board	208.57	
Westfield State Sanatorium, Board	134.28	
Joseph P. Nolan, Plumbing Inspector	190.00	
Elin C. Duane, quarantine	27.00	
R. M. Haynes, provisions	34.67	
James Waldie, quarantine	48.00	
Charles R. Hoffman, quarantine	10.00	
John S. Buchan, inspecting plumbing	12.00	
L. E. Knott Apparatus Co., supplies	16.21	
John S. Fraize, killing cats	4.00	
Mass. Association Board of Health	2.00	
John Colbath, labor	5.00	
The Andover Press, supplies	4.50	
Hobbs & Warren, book of permits	1.81	
W. J. Morrissey, auto hire	1.00	
Benjamin Jaques, fuel	8.50	
Joseph F. Kenney, provisions	4.00	
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Total Expenditure	\$3356.45	
Overdrawn		356.45
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	\$3356.45	\$3356.45

PRINTING AND STATIONERY

Appropriation, March 7, 1921		\$1800.00
The Andover Press, advertising, printing & supplies	\$1637.45	
The Birmingham Pen Co., pens	5.25	
The Carter's Ink Co., record ink	4.50	
H. M. Isaacs, type. ribbon & pawl	.90	
J. H. McDonald, P. M., stamped envelopes	141.37	
Library Bureau, tax collector's tab. cards	74.26	
Adams, Cushing & Foster, Tax Collector's cash book	22.25	
J. B. Wolfson, "F & E" checkwriter	35.00	
Burroughs' Adding Machine Co., services	13.00	
F. H. Blackbird, pens	1.75	
P. B. Murphy, blanks	7.00	
Wright & Potter Printing Co., tax blanks	14.75	
Whitson Sales Co., supplies	8.08	
H. M. Meserve & Co., supplies	7.40	
A. W. Babbitt, draft register	7.25	
A. W. Brownell Corp., tax tables	1.50	
H. M. Meek Pub. Co., birth books	2.56	
Hobbs and Warren, blanks	4.46	
	\$1988.73	
Total expenditure		
Overdrawn		188.75
	\$1988.73	\$1988.73

GYPSY AND BROWNTAIL MOTH DEPARTMENT

Appropriation, March 7, 1921		\$4000.00
Receipts, private work		4034.05
Pay rolls,	\$5415.31	
Walter I. Morse, supplies	101.77	
Edward H. Berry, expenses	43.48	
Samuel Cabot, Inc., creosote	75.25	
S. T. Shattuck & Sons, express	26.31	
Goodyear Tire & Rubber Co., hose	184.88	
James Callum, lettering	2.25	
Frost Insecticide Co., brushes	10.80	
Treat Hardware Corp., supplies	84.50	
Vreeland Chemical Co., arsenate of lead	680.00	
C. S. Buchan, brushes & paint	5.50	
John L. Morrison, rent of barn	120.00	
John L. Morrison repairing	5.85	
Freeman Abbott horse hire	230.00	
Sinclair Refining Co.	21.38	
W. H. Coleman & Co., supplies & repairing	285.98	
Fitz Henry Guptill Co., supplies	61.64	
Cornelius Callahan Co., pipe	11.00	
Buchan & McNally, supplies	12.68	
Lyle Brothers, supplies	4.30	
Joseph C. Terry,	5.25	
"The Whatnot", supplies	.40	
The Grasselli Chemical Co., supplies	204.00	
Frank E. Dodge, cement	1.00	
C. A. Hiil, keys	1.05	
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Total expenditure	\$7594.58	
Balance	439.47	
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	\$8034.05	\$8034.05

SPRING GROVE CEMETERY

Appropriation, March 7, 1921		\$1500.00
Sale of lots		1122.50
Care of lots		759.50
Perpetual care		290.50
Interments and use of tomb		321.50
Foundations		416.90
Sundries, filling, grading, etc.		478.65
Interest on dep.		19.73
Pay rolls	\$3988.77	
Reade Mfg. Co., herbicide	62.25	
Board of Public Works, water, pipe and use of steam roller	70.11	
E. F. Conkey, horse and team hire	82.71	
Frank E. Dodge, cement	68.30	
The Andover Press, printing and supplies	20.40	
Anderson and Bowman, sharpening tools	12.90	
Walter I. Morse, supplies	207.19	
Boston and Maine R. R., freight	3.73	
James McGhie, dynamite and fuses	11.50	
American Vault Works, markers	9.10	
George D. Millett, plants and flowers	51.00	
J. H. McDonald, postage	8.00	
Edith P. Sellars, Clerk	100.00	
Buchan and McNally, supplies	1.90	
C. F. Emerson, carting	1.50	
John F. McDonough, ashes	199.50	
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Total expenditures	\$4898.86	
Balance	10.42	
<hr/>		
	\$4909.28	\$4909.28

NEW TOMB

Appropriation, March 7, 1921		\$6000.00
Philip L. Hardy, contractor	\$5264.40	
John Franklin, plans and specifications	200.00	
To Spring Grove Cem. sodding and grading around tomb	285.15	
Everett M. Lundgren, lowering device	231.50	
	<hr/>	
Total expenditures	\$5981.05	
Balance	18.95	
	<hr/>	
	\$6000.00	<hr/>
		\$6000.00

INSURANCE

Appropriation, March 7, 1921		\$3000.00
Appropriation, Workmen's Compensation		2500.00
Smart and Flagg, Agents, Insurance	\$5204.69	
Total expenditure	\$5204.69	
Balance	295.31	
	<hr/>	<hr/>
	\$5500.00	\$5500.00

HAY SCALES

Appropriation, March 7, 1921		\$125.00
Receipts		70.00
William C. Brown, weigher	\$102.00	
Balance	93.00	
	<hr/>	<hr/>
	\$195.00	\$195.00

INTEREST

Appropriation, March 7, 1921		\$17500.00
Interest received on deposits		626.12
Paid 155 Water Bond Coupons at \$20	\$ 3100.00	
Paid 73 Water Bond Coupons at \$17.50	1277.50	
Paid 151 Sewer Bond Coupons at \$20	3020.00	
Paid 80 Sewer Bond Coupons at \$25	2000.00	
Paid 174 High School Bond Coupons at \$20.	3480.00	
Interest on Notes 13-28	5562.97	
	18440.47	
Total Expenditure		
Overdrawn		314.35
	\$18440.47	\$18440.47

WATER SINKING FUND

Appropriation, March 7, 1921		\$750.00
Thomas E. Rhodes, Treas. Sink. F'ds	\$750.00	
	\$750.00	\$750.00

SEWER SINKING FUND

Appropriation, March 7, 1921		\$1000.00
Thomas E. Rhodes, Treas. Sink. F'ds	\$1000.00	
	\$1000.00	\$1000.00

STREET LIGHTING

Appropriation, March 7, 1921		\$7900.00
Lawrence Gas Company	\$6979.06	
Balance	920.94	
	<hr/>	<hr/>
	\$7900.00	\$7900.00

STATE TAX AND HIGHWAY TAX

Andover's proportion of State Tax		\$25900.00
Andover's proportion of Highway Tax		2428.50
Special State Tax		1221.00
Bank Tax		2243.13
Street Railway Co. Tax		254.79
Civilian War Poll Tax		6072.00
Treasurer of the Commonwealth	\$38119.42	
	<hr/>	<hr/>
	\$38119.42	\$38119.42

COUNTY TAX

Andover's proportion of County Tax		\$19007.44
David Robinson, County Treas.	\$19007.44	
	<hr/>	<hr/>
	\$19007.44	\$19007.44

MEMORIAL HALL LIBRARY

Appropriation, March 7, 1921		\$3000.00
Frederic S. Boutwell, Treas. Memorial Hall Library	\$3000.00	
	<hr/>	<hr/>
	\$3000.00	\$3000.00

NOTES GIVEN

Andover National Bank, Notes 13-14, Rate 5.95					\$40000.00
"	"	"	Note 15	" 5.90	50000.00
"	"	"	Notes 16-19,	" 5.95	50000.00
"	"	"	Notes 20-26,	" 5.65	75000.00
"	"	"	Note 27	" 4.40	5000.00
"	"	"	Notes 28	" 4.40	15000.00
					<hr/>
					\$235000.00

NOTES PAID

Andover National Bank	\$215000.00
Notes 27-28 outstanding	20000.00
	<hr/>
	\$235000.00

DOG TAX

Received from County Treasurer		\$323.52
• Paid F. S. Boutwell, Treas. Memorial Hall	\$323.52	
	<hr/>	<hr/>
	\$323.52	\$323.52

MEMORIAL DAY

Appropriation, March 7, 1921		\$600.00
Ballard Holt, Quartermaster	\$600.00	
	<hr/>	<hr/>
	\$600.00	\$600.00

POST 99, G. A. R.

Appropriation, March 7, 1921		\$100.00
Ballard Holt, Quartermaster	\$100.00	
	<hr/>	<hr/>
	\$100.00	\$100.00

RETIREMENT OF VETERANS

Appropriation, March 7, 1921		\$300.00
Paid to Veteran	\$300.00	
	<hr/>	<hr/>
	\$300.00	\$300.00

PUBLIC DUMP

Appropriation, March 7, 1921		\$75.00
Olof Benson, Keeper	\$75.00	
	<hr/>	<hr/>
	\$75.00	\$75.00

SHAWSHEEN BRIDGE LOAN

Bond Loan		\$12500.00
Bond Loan Int.		31.34
Bond Loan Premium		36.25
William M. Wood		10000.00
Old Colony Trust Co., certification	\$ 100.00	
County of Essex, Haverhill St. Bridge	21821.32	
	<hr/>	
Total expenditure	21921.32	
Balance	646.27	
	<hr/>	<hr/>
	\$22567.59	\$22567.59

WAR MEMORIAL BOOK

Appropriation, March 7, 1921		\$3000.00
C. M. Fuess, expenses	\$ 46.60	
Dorothy Cutler, clerical work	33.25	
Helen E. Cannon, clerical work	26.25	
Andover Post No. 8, American Legion, expenses	27.60	
The Andover Press, printing	2799.40	
	<hr/>	
Total Expenditures	2933.10	
Balance	66.90	
	<hr/>	
	\$3000.00	\$3000.00

BALLARD VALE SCHOOL HOUSE

Appropriation, March 7, 1921		\$2000.00
J. E. Pitman, contract	\$1980.74	
Balance	19.26	
	<hr/>	
	\$2000.00	\$2000.00

TOWN FARM PROPERTY

Sale of land and buildings		\$30000.00
Div. And. Nat'l Bank		335.18
Advertising and printing	\$98.95	
B. Rogers, services	50.00	
Revenue stamps	15.00	
John Franklin, survey	26.00	
	<hr/>	
Total expenditure	189.95	
Balance	30145.23	
	<hr/>	
	\$30335.18	\$30335.18

REDEMPTION OF BONDS

Appropriation, March 7, 1921

Water		\$8000.00
High school		6000.00
Sewer		6141.78
Sewer bond premium		858.22
8 Water bonds	\$8000.00	
7 Sewer bonds	7000.00	
6 High school bonds	6000.00	
	<hr/>	<hr/>
Total	\$21000.00	\$21000.00

MISCELLANEOUS

Appropriation, March 7, 1921		\$3000.00
Edith P. Sellars, Clerk	\$1018.00	
Andover National Bank, safety dep. box	5.00	
White-Hall Garage, auto hire	6.00	
Scott T. Shattuck, team hire	12.00	
Herbert Clark, repairs	9.58	
E. Staples, damages	4.50	
The Andover Press, advertising	3.00	
John A. Riley, janitor	3.00	
New Eng. Tel. and Tel. Co.	13.20	
W. J. Morrissey, auto hire	51.50	
Music, Soldiers' funerals	376.12	
Board of Selectman, expenses	12.50	
J. H. McDonald, P. M., revenue stamps	15.00	
Div. of Accounts, certif. of notes	32.00	
Town of Tewksbury, Town Bounds	26.75	
Auto List Pub. Co., auto list	12.00	
County of Essex, petition	3.00	
Banker and Tradesman, subscription	7.00	
American Railway Ex. Co., freight	1.57	
H. M. Meserve, supplies	9.20	
Sealer Weights and measures, fee	1.15	
J. H. Playdon,	10.00	
W. H. Coleman, lights	5.40	
W. S. Donald, expenses	37.70	
Guy E. Webster, auto hire	19.88	
Lilla D. Stott, probate and real estate		
returns	70.03	
C. F. Emerson, auto hire	35.00	
W. and L. E. Gurley, sealer's supplies	4.57	
<i>Amount carried forward</i>	<hr/> \$1804.65	

<i>Amount brought forward</i>	\$1804.65	
C. W. Scott, M. D., return of births	1.00	
C. E. Abbott, M. D., return of births	.75	
P. J. Look, M. D., return of births	8.25	
W. D. Walker, M. D., return of births	7.00	
E. D. Lane, M. D., return of births	7.50	
F. S. Smith, M. D., return of births	.25	
J. J. Daly, M. D., return of births	7.25	
E. C. Conroy, M. D., return of births	1.25	
E. M. Lundgren, return of deaths	16.50	
Pitochelli Brothers, return of deaths	.50	
John J. Breen, return of deaths	1.50	
A. H. Libby and Co., return of deaths	.50	
E. L. Bennett, return of deaths	1.00	
M. J. Mahoney, return of deaths	1.50	
Conlin and Ryan, return of deaths	1.25	
George A. Higgins, Clerk and		
Treasurer expenses	43.00	
William F. Gledhill, Fish Warden	10.00	
Frank H. Hardy, Supt., resetting poles	149.16	
	<hr/>	
Total expenditure	2062.81	
Balance	937.19	
	<hr/>	
	\$3000.00	\$3000.00

OVERSEERS OF THE POOR

The Overseers of the Poor submit the following report for the year ending Dec. 31, 1921:

The Town Farm is still under the efficient supervision of Mrs. Annie Swanton as Superintendent and Matron and conditions of the house and inmates show the same careful attention as before. The inmates, who are all advanced in years, show a spirit of contentment and satisfaction. Very little help can be given by any of the inmates, which necessitates the hiring of outside help.

There has been a marked increase in the last year in the outside relief and as conditions are at present it seems almost inevitable that the calls will be greater in 1922.

The report of the special committee on the Town Farm will be found elsewhere.

WALTER S. DONALD
CHARLES BOWMAN
ANDREW McTERNEN

Overseers of the Poor

ALMSHOUSE EXPENSES

Appropriation, March 7, 1921		\$5000.00
Receipts		470.61
Mrs. F. A. Swanton, matron	\$800.00	
Jessie Fowler, labor	415.80	
Sarah Shawcross, labor	60.00	
Mrs. Baxter, labor	5.40	
Lexie Frazer, labor	120.00	
Mary Fowler, labor	37.00	
Mary Adams, labor	255.00	
Belle Valentine, labor	3.60	
Shawsheen Market, provisions	481.34	
Walter I. Morse, supplies	25.53	
Andover Coal Co., fuel	307.69	
Family Shoe Store, shoes, repairs	20.60	
Hiller and Co., dry goods	16.33	
New England Tel. and Tel. Co.	8.38	
J. H. Campion and Co., provisions	493.74	
Rockport Market, provisions	133.86	
Lindsay and Young, provisions	361.75	
C. S. Buchan, mdse. and supplies	95.43	
Lawrence Gas Co.	338.21	
H. Bruckman, grain	406.32	
Ernest T. Hethrington, groceries	138.39	
A. B. Loomer, provisions	199.13	
O. P. Chase, periodicals and supplies	18.95	
Beach Soap Co., soap and powder	21.00	
John Shea, grain	10.05	
Buchan and McNally, ware and repairing	21.40	
Frank L. Holt, labor	16.25	
John Ferguson, repairing	5.75	
<i>Amount carried forward</i>	\$4816.90	

<i>Amount brought forward</i>	\$4816.90
Albert W. Lowe, druggist supplies	44.99
E. E. Gray Co., provisions	91.23
Frederick C. Small Co., provisions	34.79
Reid and Hughes Co., dry goods	141.95
Bicknell Brothers, clothing	15.68
A. B. Sutherland Co., dry goods	8.36
C. A. Hill, supplies	6.50
Anderson and Bowman, blacksmith work	58.10
John L. Morrison, stock and labor	111.25
Frank L. Cole, clothing	50.50
Chester D. Abbott, dairy products	22.05
John A. Daley Co.	38.85
Cross Coal Co., fuel	525.00
John Ecklin,	2.00
Armour and Co., products	6.75
The "Whatnot," hardware	9.05
Franklin H. Stacey, druggist supplies	20.68
Essex County Farming Ass'n, supplies	27.60
T. H. Lane and Son, clothing	107.82
Miley Soap Co., washing and cleaning compounds	34.50
Curtis Shoe Shop, repairing	4.70
Shawsheen Laundry, Laundry work	5.87
Agnes H. West, bakery	11.93
S. K. Ames, provisions	9.25
A. Basso, fruit	37.95
Herbert P. Carter, wood	9.00
Standard Oil Co., disinfectant	4.00
C. I. Alexander Co., repairs to cleaner	1.75
George L. Averill, supplies	13.75
Elmer F. Conkey, shavings	3.50
W. C. Crowley, druggist supplies	11.75
H. R. Thombs, apples	10.00
People's Ice Co.	75.00

<i>Amount carried forward</i>	\$6373.00
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<i>Amount carried forward</i>	\$6373.00	
Henry J. Furneaux, provisions	5.86	
Board of Public Works	43.36	
Gray and Kendall, filing saws	2.50	
	<hr/>	
Total expenditure	6424.72	
Overdrawn		954.11
	<hr/>	<hr/>
	\$6424.72	\$6424.72

ALMSHOUSE REPAIRS

Appropriation, March 7, 1921		\$300.00
Frank E. Dodge, whitewashing	\$6.40	
Gray and Kendall, labor	1.80	
Walter I. Morse, supplies	15.69	
Buchan and McNally, repairs	69.36	
C. S. Buchan, repairs	109.23	
P. F. Leslie, labor	6.88	
A. M. Colby, painting	39.00	
Balance	51.64	
	<hr/>	<hr/>
	\$300.00	\$300.00

SOLDIERS' RELIEF

Appropriation March 7, 1921		\$1500.00
Total expenditure	1270.47	
Balance	229.53	
	<hr/>	<hr/>
	\$1500.00	\$1500.00

STATE AID

Appropriation, March 7, 1921		\$1000.00
Total expenditure	\$558.00	
Balance	442.00	
	<hr/>	<hr/>
	\$1000.00	\$1000.00

MILITARY AID

No appropriation		
Total expenditure	\$150.00	
Overdrawn		150.00
	<hr/>	<hr/>
	\$150.00	\$150.00

OUTSIDE RELIEF

Appropriation, March 7, 1921			\$4000.00
Paid out of Almshouse		\$2693.17	
Paid other cities and towns		772.40	
Paid account of cities and towns		207.17	
Paid State		379.71	
Paid account of State		318.40	
		<hr/>	
Total expenditure		\$4370.85	
Due from State	\$318.40		
Due from cities	207.17	525.57	
	<hr/>	<hr/>	
Net expenditure		3845.28	
Balance		154.72	
		<hr/>	
		\$4000.00	\$4000.00

AIDING MOTHERS WITH DEPENDENT CHILDREN

Appropriation, March 7, 1921			\$2500.00
Town cases		\$2925.55	
Paid other cities		838.35	
Paid account other towns		894.00	
		<hr/>	
		\$4657.90	
Due from towns	\$323.00		
Due from State	873.16		
Received from State	377.65		
Received from towns	261.67	1835.48	
	<hr/>	<hr/>	
Net expenditure		\$2822.42	
Overdrawn			\$322.42
		<hr/>	<hr/>
		\$2822.42	\$2822.42

CASH REPORT

Received for board from Lucy Donahue	\$ 28.00	
Received for board from Joan Dorrington	87.50	
Received for board from H. F. Swanton	112.50	
Received for pork and pigs	83.36	
for hay	150.00	
for poultry	5.25	
for old lumber	4.00	
	<hr/>	<hr/>
	\$470.61	
Paid Town Treasurer		\$470.61

STATISTICS OF ANDOVER TOWN FARM

Number of inmates January 1, 1921	10
Number admitted during year	7
Number sent to Danvers	1
Number sent to Tewksbury	3
Number of deaths	1
Number who left for work	3
Number of inmates January 1, 1922	9
Number between 60 and 70 years of age	5
Number between 70 and 80 years of age	1
Number between 80 and 90 years of age	3

PERSONAL PROPERTY AT ALMSHOUSE

House Furniture	\$1100.00
Clothing	300.00
Provisions	100.00
Farm Stock	320.00
Farm Produce	285.00
Fuel	275.00
Farm tools	325.00
	<hr/>
	\$2705.00

ASSESSORS' REPORT

We herewith submit our annual report:—

Number of males assessed		2400
Personal estate	\$2309395.00	
Real estate	8638975.00	
	<hr/>	\$10948370.00
Poll tax	10120.00	
Tax on personal estate	61200.85	
Tax on real estate	228934.73	
	<hr/>	\$300255.58

Rate of taxation per \$1000, \$26.50

Number of	
Horses assessed	440
Cows assessed	891
Neat cattle assessed	246
Swine assessed	128
Fowls assessed	12625
Dwellings assessed	1845
Acres of land assessed	17786

WALTER S. DONALD
CHARLES BOWMAN
ANDREW McTERNEN

Assessors of Andover

REPORT OF TREE WARDEN

This has been a year in the Tree Department never to be forgotten, and, we trust, never to be repeated.

The ice storm of Nov. 27th, 28th, and 29th wrought such havoc with our trees that it is beyond the pen of man to describe it. Only those seeing could believe the amount of damage done.

We have had a large force of men working continuously since the storm trying to save every tree possible, but it will take years, and a large amount of money to bring the shade trees back to where they were before.

Property owners must not be hasty in condemning their shade trees to the wood pile as the right kind of pruning and a little patience, when your trees look badly now will come out O. K. later.

What we must do is to get together, have a real Arbor Day and plant more trees.

This department has planted one hundred shade trees the past year (mostly Norway Maples) and has taken down nearly as many, therefore we must plant in order to preserve our beautiful shade trees for the coming generations.

We have done twelve miles of roadside cutting. This is a start, but we have many miles to do so as to make the roads safe for travel.

In order to carry on the work of this department I ask that the sum of \$10,000.00 be appropriated; \$5,000.00 to cover amount spent since the storm and \$5,000.00 to be used later.

Respectfully,

EDWARD H. BERRY

Tree Warden

REPORT OF TREE WARDEN

Appropriation, March 7, 1921		\$3000.00
Pay rolls	\$3022.48	
Walter I. Morse, supplies	24.11	
Frank W. Spinney, maple trees	121.00	
Owen Sullivan, labor	30.00	
John L. Morrison, blacksmith work	24.90	
Gray & Kendall, filing saws	2.20	
Pay rolls, ice storm	2239.52	
Sidney P. White, labor, ice storm	74.31	
H. A. Prescott, supplies, ice storm	57.00	
F. H. Hardy, Supt., ice storm	77.44	
Walter I. Morse, supplies, ice storm	47.89	
Treat Hardware Corp., supplies, ice storm	47.15	
Frost Insecticide Co., supplies, ice storm	128.45	
Samuel Cabot, Inc., supplies, ice storm	17.85	
John F. McDonough, team hire & labor, ice storm	842.60	
E. H. Berry, expenses, ice storm	13.42	
S. T. Shattuck & Son, ice storm	10.50	
American Railway Ex. Co., ice storm	.53	
	<hr/>	
Total expenditure	\$6781.35	
Overdrawn		3781.35
	<hr/>	<hr/>
	\$6781.35	\$6781.35

REPORT OF MOTH SUPERINTENDENT

In submitting my report for the year 1921, I wish to thank the property owners for their co-operation in suppressing the brown-tail moth. The infestation has been especially heavy in the south and west parts of the town and if we are to stamp out this pest we must not let up.

We are very glad to have property owners do their own work but the property must be inspected by your Moth Supt. or his deputies. With your co-operation we mean to have a clean slate this year.

We have at the present time, three power sprayers and two hand pumps. The sprayers are old and will soon have to be replaced, but by overhauling and getting some new parts we may get by for a year or two, but your Supt. thinks it will be a good business policy to buy one small power sprayer this year; therefore I would ask the town to appropriate the sum of \$6,000.00 for this department.

Respectfully,

EDWARD H. BERRY

Tree Warden

POLICE DEPARTMENT

REPORT OF CHIEF

To the Board of Selectmen.

GENTLEMEN:—

I herewith submit the report of the Police Department for the year ending Dec. 31, 1921.

Whole number of arrests 143. Males 133. Females 10.

OFFENSES FOR WHICH ARRESTS WERE MADE

Manslaughter	4
Violation Motor Vehicle Law	34
Drunk	14
Assault	3
Malicious Mischief	13
Vagrancy	5
Insane	4
Breaking and entering	8
Disturbance	8
Town Ordinance	10
Violation of Liquor Law	13
Attempt to Break	1
Disorderly House	1
Lewdness	4
Fishing without license	2
Violation Bd. Health Law	5
Evading Fares on electric car	5
Operating motor vehicle while under the influence of liquor	4
Indecent assault	4

Setting forest fire	1
Peddling without license	1
Cruelty to animals	1
Larceny	3

DISPOSITION OF CASES

On Probation	16
Suspended sentences to House of Correction	2
Suspended sentences to State Farm	1
Returned to Tewksbury Infirmary	4
Committed to House of Correction	6
Continued for sentence	2
Held for Grand Jury	4
Paid fines in lower court	51
Arrested for out of-town officers	3
Committed to Danvers State Hospital	4

SUPERIOR COURT FINDINGS

No bill found	1
Cases pending	5
On probation	2
Paid fines	6

MISCELLANEOUS

Fines paid in lower court	\$2085.00
Fines paid in Superior court	515.00
Value of property reported stolen	1200.00
Value of property recovered	250.00
Value of property Police equipment	500.00
Dead bodies cared for	6
Doors left open and secured	86

I wish to express my sincere thanks, "in this public manner" to the Board of Selectmen and to Colver J. Stone, Trial Justice, for the many acts of kindness they have extended the Police Dept. The work of the Dept. for the past year has been hard. The Volstead act in regard to prohibition has added greatly to it. Raids

have been made in many parts of the town with good results and fines amounting to \$1,285.00 have been collected in court. The handling of the Auto Traffic is one thing that takes up much time and more officers should be added to the present force. I would recommend the purchase of a small truck as many times it could be used in taking injured persons to the hospital on a stretcher instead of in an auto.

We have had four fatal accidents on Main street during the year 1921 and we have taken sixteen to the Lawrence Hospital for treatment.

FRANK M. SMITH

Chief of Police

SPRING GROVE CEMETERY

The trustees of Spring Grove Cemetery submit the following report:—

The appropriation calling for \$6,000 for the reconstruction of the tomb has been spent for the same, which includes grading, and all outside work attendant thereto. Your trustees are in every way satisfied with the work done, and feel that along with other Andover lines of progress that this is a credit to the Cemetery and Town. It gives us about twice as much room and in a more convenient and workable manner. Very little new work has been done during the year, and what was done was taken out of the regular income.

The cemetery has been kept up in the same high and efficient manner as in the past. A new lowering device has been purchased by your trustees and is now owned by the cemetery.

Your trustees ask for the same appropriation of \$1500 with all incomes from the cemetery for carrying on the work of the coming year. We also ask \$1,000 for a continuation of the new work on the East side.

GEORGE D. MILLET	WARREN L. JOHNSON
WALTER L. MORSE	JOHN W. STARK
DANIEL H. POOR	FRED E. CHEEVER
DAVID R. LAWSON	

WARREN L. JOHNSON, *clerk of Board of Trustees.*

REPORT OF SUPERINTENDENT

To the Board of Trustees:

I herewith submit my annual report as Superintendent of Spring Grove Cemetery for the year ending December 31, 1921.

In addition to the regular care of the Cemetery we have spent about \$1000. in general improvement of the east side, the clearing of rough land and the grading of roads.

We are also glad to report the completion of a new tomb and the grading of the land around it. The work on the tomb was finished so late in the season that we were unable to fully complete the grading, which, however, will be attended to as soon as possible.

Respectfully submitted,

F. A. SWANTON,

Superintendent.

STATISTICS OF SPRING GROVE CEMETERY

Lots sold as per last report	522
Lots sold in 1921	20
Total number of lots sold	542
Total number of single graves sold	195
Interments as per last report	1535
Interments in 1921	52
Total number of interments	1587

ANIMAL INSPECTOR'S REPORT

To the Board of Selectmen:—

GENTLEMEN:—I hereby submit my report for the year beginning November 15, 1920, and ending November 15, 1921.

Number of cattle inspected	139
Number of stables inspected	159
Number of cows condemned because afflicted with tuberculosis	25
Number of stables disinfected	22
Number of interstate cattle identified and released from quarantine	50
Number of dogs placed in quarantine and held for observation after they had bitten persons	4

The head of one dog was sent to the office of the "Division of Animal Industry" for a laboratory examination, with negative results.

Respectfully submitted,

CHARLES H. NEWTON

Inspector of Animals

REPORT OF BUILDING INSPECTOR

To the Board of Selectmen:—

GENTLEMEN:—I herewith submit my report of the Building Inspector's Department from December 31, 1920 to December 31, 1921.

Whole number of permits granted	192
Number of addition permits granted	28
Number of alteration permits granted	10
Number of new building permits granted	108
One family dwelling houses	61
Two family dwelling houses	3
All sizes of garages permits granted	29
Railroad station	1
Restaurant	1
Power house	1
Barns	11
Elevators	3
Miscellaneous buildings	11

Respectfully submitted,

JOSEPH I. PITMAN

Building Inspector

SCHEDULE OF TOWN PROPERTY

Town House and fixtures	\$ 50000.00	
Engine House, storehouse and barn	25000.00	
25723 feet land	25000.00	
		<hr/> \$100000.00
Memorial Hall	30000.00	
22318 feet land	12000.00	
		<hr/> 42000.00
Engine House, Ballardvale	6000.00	
New shed	200.00	
1-3 acre land	300.00	
		<hr/> 6500.00
9 acres land, Burnham road	1800.00	
		<hr/> 1800.00
Punchard High School buildings	125000.00	
4 acres land	8000.00	
		<hr/> 133000.00
John Dove Schoolhouse	25000.00	
Heating plant, Jackson Schoolhouse	30000.00	
Stowe Schoolhouse	31000.00	
3 3-4 acres land	6000.00	
		<hr/> 92000.00
Bradlee Schoolhouse, Ballardvale	23000.00	
1 acre land	500.00	
		<hr/> 23500.00
Richardson Schoolhouse	7000.00	
1-2 acre land	400.00	
		<hr/> 7400.00
Indian Ridge Schoolhouse	17000.00	
1 acre land	800.00	
		<hr/> 17800.00
		<hr/>
<i>Amount brought forward</i>		\$424000.00

<i>Amount brought forward</i>		\$424000.00
West Centre Schoolhouse	5000.00	
1-2 acre land	150.00	
		5150.00
North District Schoolhouse	5000.00	
1-2 acre land	50.00	
		5050.00
Bailey District Schoolhouse	3000.00	
1-2 acre land	50.00	
		3050.00
Osgood District Schoolhouse	2000.00	
1-2 acre land	50.00	
		2050.00
Old Schoolhouse, Ballardvale	4000.00	
1-4 acre land	500.00	
		4500.00
9 acres land, Indian Ridge (gravel pit)	3000.00	
4 1-2 acres land, Carmel Woods Res- ervation	5000.00	
173751 feet land, Central Park (Rich- ardson Field)	15000.00	
Band Stand	1000.00	
6 1-2 acres land, Playstead	5000.00	
20 1-2 acres land, Playstead, Ballardvale	500.00	
41 1-2 acres land, Spring Grove Cemetery	9000.00	
Receiving tomb, and toolhouse	6000.00	
		44500.00
Andover Board of Public Works —		
Pipe lines and fountains	258000.00	
Pumping station and buildings	42500.00	
Coal shed	700.00	
3 acres land	800.00	
Two reservoirs	16000.00	
4 1-2 acres land	2350.00	
28 acres land, Boston Ice Co., Hag- getts Pond	2500.00	\$322850.00
<i>Amount carried forward</i>		\$811150.00

<i>Amount brought forward</i>		\$811150.00
Workshop, Lewis street	1600.00	
Old Stable, Lewis street	1000.00	
Barn and shed, Lewis street	3000.00	
47467 feet land, Lewis street	3000.00	
House, Engineer's house	2500.00	
Pump house, east side of No. Main street	5000.00	
Steam road roller	4500.00	
3 sleds	75.00	
1 auto	300.00	
3 horses	800.00	
Carts and harnesses	200.00	
Sewer System (30 acres Filter Beds)	313000.00	
		<hr/>
		334975.00
Punchard School Fund		76854.28
Memorial Hall, Permanent Fund	45000.00	
Memorial Hall Library, John Cornell Fund	7700.00	
Memorial Hall Library, John Byers Fund	10000.00	
Memorial Hall Library, Edward Taylor Fund	500.00	
Memorial Hall Library, Isaac E. Giddings Fund	3000.00	
Memorial Hall Library and furniture	10000.00	
Memorial Hall Library, Woman's Christian Temperance Union	100.00	
Memorial Hall Library, Phillips Fund	3200.00	
		<hr/>
		79500.00
Personal Property at Town Farm	2705.00	
Motor Combination Chemical Truck	5300.00	
Motor Combination Pump and Truck	9000.00	
Light Truck	800.00	
Hook and Ladder	1000.00	
Two hose wagons	1000.00	
		<hr/>
<i>Amount carried forward</i>		\$1322284.28

<i>Amount brought forward</i>		\$1322284.28
Hose sled	60.00	
Four horses	800.00	
Hay scales	350.00	
Safes in Town House	800.00	
	<hr/>	2010.00
Weights and measures	350.00	
Fire alarm apparatus	8000.00	
4000 feet hose	2500.00	
	<hr/>	10850.00
Moth Dept. Sprayers and Tools	5000.00	5000.00
		<hr/>
		\$1340144.28

TOWN OF ANDOVER — JURY LIST

Abbott, Newton S.	Hannon, Lawrence J.
Averill, George L.	Harrington, Daniel F.
Angus, John C.	Hill, Ira B.
Bailey, Samuel H.	Holt, George A.
Bancroft, William A.	Holt, John V.
Baxter, George H.	Holland, Alfred C.
Barrett, Patrick J.	Holt, George E.
Bassett, Arthur W.	Hovey, James H.
Burns, David F.	Keane, Mark M.
Cates, A. Lincoln	Kendall, Frank H. E.
Cannon, Gordon R.	Kyle, James
Carter, George M.	Leslie, David C.
Carter, Donald W.	Lockhead, Robert
Clark, Herbert	Maddox, John
Chase, Herbert F.	Mahoney, Timothy J.
Cheever, Fred E.	May, George M.
Cole, Roscoe K.	McGovern, Clarence F.
Cole, Joseph F.	McIntyre, William D.
Comeau, Arthur N.	Miller, George R.
Cutler, Howard A.	Mosher, James R.
Dane, Louis A.	Mooar, J. Warren
Disbrow, George W.	Nason, Harry C.
Dove, Percival	Newton, Charles M.
Doyle, Thomas J.	Nolan, Joseph P.
Dunnells, George C.	Noyes, John L.
Flaherty, Michael J.	O'Connell, Walter J.
Flanders, Charles W.	O'Donnell, Hugh F.
Flint, Edwin M.	O'Donnell, John A.
Garland, George M.	O'Hara, Robert W.
Godin, John W.	Pitman, Joseph I.
Greenwood, Milton	Remmes, Joseph T.
Hannon, Patrick J.	Riley, John A.

Riley, Joseph A.
Robinson, William C.
Roggemann, Edward
Scott, David M.
Shattuck, Scott T.
Shaw, George
Shaw, Irving R.
Sherry, Frank J.
Stott, Joseph E.

Taylor, Loren E.
Todd, Henry
Trow, Henry J.
Tuttle, Benjamin B.
Valpey, Frank D.
Valentine, Franklin S.
Walker, Salmond C.
Whitman, David O.
Ward, George D.

REPORT OF TAX COLLECTOR

To the Board of Assessors:—

The following is the Report of the Collector of Taxes for the year ending December 31, 1921.

	1918	
Amount as per warrant		\$810.09
Moth Work		5.10
Interest		119.59
Collected Taxes	\$750.18	
Moth Work	5.10	
Interest	119.59	
Abated	59.91	
	<hr/>	<hr/>
	\$934.78	\$934.78
	1919	
Amount as per warrant		\$8916.38
Added to warrant		4.60
Moth Work		41.30
Interest		797.88
Collected Taxes	\$8095.99	
Collected Moth Work	41.30	
Interest	797.88	
Abated	446.71	
Uncollected	378.28	
	<hr/>	<hr/>
	\$9760.16	\$9760.16

1920

Amount as per warrant		\$33057.82
Added to warrant		7.91
Moth Work		223.50
Interest		924.63
Collected Taxes	\$22334.63	
Collected moth work	223.50	
Collected Interest	924.63	
Abated	109.04	
Uncollected	10622.06	
	<hr/>	<hr/>
	\$34213.86	\$34213.86

1921

Amount as per warrant		\$300255.58
Added to warrant		132.20
Moth Work		3764.15
Interest		141.97
Collected Taxes	\$255264.08	
Collected moth work	3764.15	
Collected Interest	141.97	
Abated	3777.79	
Uncollected	41345.91	
	<hr/>	<hr/>
	\$304293.90	\$304293.90

SUMMARY COLLECTOR'S CASH ACCOUNT, 1921

AMOUNT COLLECTED AND PAID TO TOWN TREASURER

	<i>Taxes</i>	<i>Moth Work</i>	<i>Interest</i>	<i>Total</i>
1918	\$ 750.18	\$ 5.10	\$ 119.59	\$ 874.87
1919	8095.99	41.30	797.88	8935.17
1920	22334.63	223.50	924.63	23482.76
1921	255264.08	3764.15	141.97	259170.20
Interest on Dep.			234.03	234.03
	<hr/>	<hr/>	<hr/>	<hr/>
	\$286444.88	\$4034.05	\$2218.10	\$292697.03

CORNELL FUND

Amount of Fund	\$5000.00
Deposited in Savings Banks	5000.00

INCOME

Balance from last account	\$ 97.77	
Savings Bank interest	245.00	
	<hr/>	\$342.77

EXPENDITURES

Expended for coal and wood	\$290.76	
Balance on hand	52.01	
	<hr/>	\$342.77

JOHN C. ANGUS
CHARLES N. MARLAND
W. D. WALKER

Trustees

TREASURER'S REPORT

FINANCIAL STATEMENT

Liabilities

Water Bonds, 4% (15000 due 1922)	\$72000.00	
Water Bonds, 3½% (3000 due 1922)	35000.00	
Sewer Bonds, 4% (5000 due 1922)	75000.00	
Sewer Bonds, 5% (2000 due 1922)	38000.00	
High School Loan, 4% (6000 due 1922)	81000.00	
Shawsheen Bridge Loan, 4¾%		
(2500 due 1922)	12500.00	
Lowell St. Sewer Note	5000.00	
Temporary Loan Note	15000.00	
		\$333500.00

Assets

Cash, General Fund	\$20526.48	
Cash, Town Farm Sale	30145.23	
Soldiers' Memorial Committee	2000.00	
Cash, Water Loan	2707.38	
Cash, Sewer Loans	2533.81	
Cash, Town Farm Committee	300.00	
War Memorial Book	66.90	
		58279.80
Uncollected taxes	52346.25	
Moth work	797.40	
		53143.65
Commonwealth, State Aid	558.00	
Commonwealth, Military Aid	150.00	
Commonwealth, Temporary Aid	318.40	1026.40
<i>Amount carried forward</i>		\$112449.85

<i>Amount brought forward</i>		\$112449.85
Cities and towns, Temporary Aid	207.17	
Cities and Towns, Mothers' Aid	323.00	
Commonwealth, Mothers' Aid	873.16	
Sewer Assessments	3795.52	
Unpaid Water Rates of January 1st	7189.82	
Sinking Funds	56375.28	
	<hr/>	69790.35
Balance against Town		152286.20
		<hr/>
		\$333500.00

GEORGE A. HIGGINS, Treas., in

DR.

Balance Jan. 1, 1921, General Fund	\$22119.06
Balance Jan. 1, 1921, Water Loan	5026.59
Balance Jan. 1, 1921, Sewer Loan	587.59
Balance Jan. 1, 1921, Sewer Premium	858.22
Balance Jan. 1, 1921, War Memorial Book	3000.00
Balance Jan. 1, 1921, Refund	1.05
Commonwealth, Corporation Tax	22306.31
Commonwealth, Bank Tax	10562.43
Commonwealth, Income Tax, 1918	200.00
Commonwealth, Income Tax, 1919	555.00
Commonwealth, Income Tax, 1920	2775.00
Commonwealth, Income Tax, 1921	20374.90
Commonwealth, Soldiers' Exemption	50.48
Commonwealth, General School Fund	7978.91
Commonwealth, Civilian War Tax	66.00
Commonwealth, Street Railway Tax	552.64
Commonwealth, Reimbursement Taxes	166.18
Commonwealth, School Tuition	175.50
Commonwealth, State Aid	648.00
Commonwealth, Industrial Schools	139.04
Commonwealth, Mothers' Aid	1263.07
Commonwealth, Temporary Aid	287.16
Commonwealth, Public Works, Moth Work	110.10
Commonwealth, Hawker's Licenses	56.00
Commonwealth, Public Works, Lowell Street.	9958.46
Essex County, Lowell Street	9958.46
Essex County, Dog Tax	323.52
Andover National Bank, Notes	235000.00
Collector's Department, Taxes	286444.88
Collector's Department, Interest on Taxes	1984.07
Collector's Department, Moth Work	4034.05
Collector's Department, Interest on Deposits	234.03
Board of Public Works, Water Rates	28013.36

Amount carried forward

\$675810.06

account with the town of Andover

CR.

Orders paid	
Schools	\$101288.60
Highway Department	59572.97
Lowell Street	29875.39
Park Department	1213.74
Water Department	31638.20
Street Lighting	6979.06
Police Department	9681.29
Fire Department	24525.06
Brush Fires	643.77
Printing and Stationery	1988.73
Insurance	5204.69
Miscellaneous	2062.81
Town House	2861.34
Town Officers	8648.19
Spring Grove Cemetery	10879.91
Board of Health	3356.45
Moth Work	7594.58
Tree Warden	6781.35
Public Dump	75.00
Hay Scales	102.00
Interest on Notes and Bonds	18440.47
Memorial Day	600.00
G. A. R. Appropriation	100.00
Memorial Hall Library	3000.00
Memorial Hall Library, Dog Tax	323.52
Town Farm Expenses	6424.72
Town Farm Repairs	248.36
Town Farm Sale	189.95
Outside Relief	4370.85
Soldiers' Relief	1270.47
State Aid	558.00
Military Aid	150.00

Amount carried forward

\$350649.47

GEORGE A. HIGGINS, Treas., in

DR.

<i>Amount brought forward</i>	\$675810.06
Board of Public Works, Service Pipe	9568.51
Board of Public Works, Highway Department	2836.90
Board of Public Works, Sidewalk Assessment	1791.18
W. C. Crowley, Sealer's Fees	81.26
George A. Higgins, Town Clerk's Fees	198.00
Old Schoolhouse, Ballard Vale, Rents	225.00
Trial Justice Court, Fines	1869.50
Town Farm	470.61
Spring Grove Cemetery, Sale and Care of Lots	3409.28
Town House, Rents	802.70
School Department, Tuition and Supplies	419.50
Hay Scales	70.00
Cities and Towns, Mothers' Aid	1546.99
Fire Department, Use of Horses	1643.25
Sewer Department, Assessments	64.00
Sewer Department, Interest on Assessments	17.50
Sewer Department, House Connections	818.28
Auto Dealers License	14.00
Board of Health, Garbage Licenses	4.00
Board of Health, Alcohol Licenses	6.00
Board of Health, Manicurist License	6.00
Board of Health, Milk Licenses	11.50
Phillips Academy, Street Lighting	230.00
Druggist's Licenses	2.00
Smart and Flagg Agents, Insurance Rebate	76.34
Shawsheen Bridge Loan	12500.00
Shawsheen Bridge Loan, Premium and Interest	67.59
Shawsheen Bridge Loan, William M. Wood	10000.00
Andover National Bank, Interest on Deposits	626.12
Town Farm Sale	30000.00
Town Farm Sale, Interest on Deposit	335.18
Brush Fire Department	6.00

Total Receipts

\$755527.25

account with the town of Andover

CR.

<i>Amount brought forward</i>	\$350649.47
Mothers' Aid	4657.90
Retirement of Veterans	300.00
Redemption of 8 Water Bonds	8000.00
Redemption of 7 Sewer Bonds	7000.00
Redemption of 6 High School Bonds	6000.00
Water Sinking Funds	750.00
Sewer Sinking Funds	1000.00
War Memorial Book	2933.10
Shawsheen Bridge	21921.32
Old Schoolhouse, Ballard Vale	1980.74
Sewer Department, Maintenance	2996.45
Sewer Department, Construction	14957.53
Sewer Department, House Connection	1124.08
Sewer Department, Special Survey	850.00
County Tax	19007.44
Commonwealth State Tax	25900.00
Commonwealth Bank Tax	2243.13
Commonwealth Highway Tax	2428.50
Commonwealth, Special State Tax	1221.00
Commonwealth, Street Railway Tax	254.79
Commonwealth, War Poll Tax	6072.00
Andover National Bank Notes	215000.00
	<hr/>
Total expenditures	\$697247.45
Balance on hand Jan. 1, 1922	
General Fund	20526.48
Town Farm Sale	30145.23
Water Loan	2707.38
Sewer Loan	2533.81
War Memorial Book	66.90
Town Farm Committee	300.00
Soldiers' Memorial Committee	2000.00
	<hr/>
	\$755527.25

Richardson Fund — Shawsheen Village School

DR.		
Balance January 1, 1921	\$1384.18	
Andover Savings Bank, interest	70.05	
	<hr/>	\$1454.23
CR.		
Tremont Talking Machine Co.	\$6.90	
Deposit, Andover Savings Bank	1447.33	
	<hr/>	\$1454.23

Draper Fund — School

DR.		
Balance January 1, 1921	\$1067.73	
Andover Savings Bank, interest	54.02	
	<hr/>	\$1121.75
CR.		
J. H. Playdon	\$ 23.00	
Natural History Society	15.00	
Deposit, Andover Savings Bank	1083.75	
	<hr/>	\$1121.75

Edward Taylor Fund — Fuel

DR.		
Balance January 1, 1921	\$ 287.08	
Andover Savings Bank, interest	14.52	
	<hr/>	\$ 301.60
CR.		
Deposit, Andover Savings Bank	\$ 301.60	
	<hr/>	\$ 301.60

Varnum Lincoln Spelling Fund

DR.		
Balance January 1, 1921	\$ 537.23	
Andover Savings Bank, interest	26.17	
	<hr/>	\$ 563.40
CR.		
H. C. Sanborn, Supt. of Schools	\$ 20.00	
Deposit, Andover Savings Bank	543.40	
	<hr/>	\$ 563.40

Isaac Giddings Burial Ground Fund

DR.

Balance January 1, 1921	\$1000.00	
Andover Savings Bank, interest	50.62	
	<hr/>	\$1050.62

CR.

F. H. Foster, Treas., South Cemetery	\$ 50.62	
Deposit, Andover Savings Bank	1000.00	
	<hr/>	\$1050.62

Cemetery Fund

PERPETUAL CARE

DR.

Balance, January 1, 1921	\$24686.64	
Andover Savings Bank, interest	1294.08	
Deposits for Perpetual Care	2709.25	
Andover National Bank Stock	200.00	
Andover National Bank Dividends	16.00	
Cash	76.00	
	<hr/>	\$28981.97

CR.

Spring Grove Cemetery, for care of lots	\$ 290.50	
Private Cemeteries, for care of lots	687.60	
Deposits, Andover Savings Bank	28003.87	
	<hr/>	\$28981.97

FIRE DEPARTMENT

To the Selectmen of the Town of Andover.

GENTLEMEN:— I submit the following report of the Andover Fire Department from December 31, 1920 to December 31, 1921.

During this time the Department has answered 103 bell alarms, 30 still alarms. We have laid 6400 feet $2\frac{1}{2}$ inch hose, 1540 feet $\frac{3}{4}$ inch hose using 950 gallons chemical, 400 feet of ladders.

Value of buildings and contents where fires have occurred, \$121,200.

Loss on buildings and contents, \$10,300.

The Department consists of One Combination Chemical and Hose Truck, One Combination Pump and Hose Truck, One brush fire truck, One Two horse Ladder Truck, One two horse Hose Wagon, Four Horses, 4 sets of Harness, 2 Tip Carts, 2 Sleds, and 4100 $2\frac{1}{2}$ in. Hose in good condition. The Fire Alarm System is in good condition as we have replaced about ten miles of old wire on account of the damage caused by the sleet storm.

The earnings of the horses and drivers for the year are \$1600.

We recommend the sum of \$23,000.00 for the use of the Fire Department.

We also recommend the purchase of an auto Ladder Truck.

CHARLES F. EMERSON,

Chief Engineer.

BOARD OF HEALTH

Since the introduction of a town water supply and system of sewers the problem of sanitation has fundamentally changed, not on account of these innovations alone, but the fact that many problems in civic and individual care of the health have undergone a species of reformation. The community now recognizes that personal security from, and the care of disease conditions, is the basis of general health conditions. Education of the public through the medium of the press, school supervision, district and public health nurses, and the physician himself, are among the many useful sources. Not only is the source of disease looked for, but particularly the route through which it is conveyed to others. Much of the work done has consisted in clearing away the fallacies built up by tradition, but constructive work has gone on also, and we now are able to formulate the results that deal with the individual as well as with environment. The ultimate eradication of Typhoid Fever, Diphtheria, Tuberculosis and all other transmissible diseases we now know depend upon the eradication of the source and prevention of a route of communication. We are now sure that the sources of these diseases are as well defined as are the seeds from which spring the various forms in the animal and vegetable kingdom. The Board of Health therefore, is not worried by theoretical possibilities, but concerns itself with practical probabilities. These principles are the basis for official public health activities, the search for and the supervision of infected persons, or animals in the case of bovine tuberculosis for instance; the control of infected discharges and their exclusion from the mouth, breathing apparatus, food and drink. The search for and supervision of mild, early convalescing, unrecognized and concealed cases and carriers, as well as of acute cases, is necessarily an essential factor in the work of the Board of Health.

The State, in view of its Constitution, is concerned with man's surroundings and relationships. It must plan for and consider

his comfort and happiness as well as his health. This must be done co-operatively, as well as economically and authoritatively in order to secure for the individual every possible advantage. The secret of successful organization is the parcelling out along material lines of all the different activities which are to be co-ordinated to one great end. The work of the Board of Health then, has become not only the work of sanitary inspection, but also of educational supervision.

Suggestions for removal of the cause of disease must go hand in hand with suggestions for treatment in the same method as carried out in medical practice. It is not enough that Boards of Health promulgate rules and regulations for the carrying out of the above outlined scheme, it should be at all times equipped with the facilities for its work, and have the hearty co-operation of the public. Knowledge, authority, equipment and availability are the essentials, and each should be given due consideration.

The problem of the general health of the community is always with us, and upon it depends in a great measure the civic activities of pleasure, safety and convenience. Our Town should interest itself in the conservation of its health as it does in the conservation of property and financial problems, unfortunately property has always had precedence over persons in almost every relation. We protect ourselves against accident so far as we are able, we should all the more protect ourselves against disease, for it may be both an accident as well as a disease.

In Andover we have done much to protect the public against disease through the work of School Medical Supervision. School nurses, district and health nurses, and the Board of Health unqualifiedly recommends the continuance of all these activities. We call attention to the various reports in this volume as evidence of the work already done, with the assurance that more and better work will be done as we learn from personal experience the varied needs of our community.

Respectfully submitted,

CHARLES E. ABBOTT, M. D.
FRANKLIN H. STACEY
BANCROFT T. HAYNES

Board of Health

MILK INSPECTOR'S REPORT

To the Board of Health.

GENTLEMEN:—

During the past year I examined 19 samples of milk and visited 39 barns where cows were kept. Believing sanitary inspection of dairies more important than taking and testing samples of milk I have given that part of the work the most attention.

The agent of the Board of Health reported several cases of Scarlet Fever on the premises of one producer. I stopped the sale of milk which was sold in Lowell, notified the Inspector of that city and made a return visit to meet him and the Health Officer.

Also visited one farm in North Andover to see if by any chance any of our Scarlet Fever cases could be traced, but found everything all right.

During the year there were 19 licenses issued for the sale of milk, cream and oleomargarine. Samples of milk tested from 3.35 to 7% butter fats.

At my request the State Department of Health detailed one of their inspectors to instruct me as to the proper method of scoring the dairies, several were visited and scored by the standard system in use. Notices were sent to these dairies giving the score and recommendations made.

In view of the field work now required in addition to the regular work, I feel that I should not give the time to this position and have tendered my resignation. Have held over on this work since it came under the Board of Health until a successor should be appointed, but there have been no applicants for the position. It is necessary to qualify by examination given by the Mass. Agricultural College, and for some part of the work one must be a recognized chemist.

Respectfully submitted,
FRANKLIN H. STACEY, *Pharm. D., Ph.C.*

REPORT OF BOARD OF HEALTH NURSE, AGENT AND CLERK

To the Board of Health.

I hereby submit my second annual report:

Number of contagious diseases reported for the year was 473,
compared with 302 for 1920.

	1921	1920
Influenza		171
Tuberculosis	10	18
Encephalitis Lethargica		1
Anterior Poliomyelitis	3	6
Typhoid Fever	6	2
Scarlet Fever	36	8
Diphtheria	21	15
Chicken Pox	25	20
Whooping Cough	2	17
Measles	358	31
Mumps	5	13.
Suppurative Conjunctivitis	1	
Lobar Pneumonia	4	
Tetanus	2	

DEATHS FROM CONTAGIOUS DISEASES

Tuberculosis	6
Typhoid Fever	1
Tetanus	2
Measles	1
Lobar Pneumonia	2
Scarlet Fever	1

13

Reports of several dog bites were received but the dogs did not have Rabies so the Pasteur treatment was not required.

During the year, I made 1241 sick calls, also miscellaneous calls as follows:

Accident and Emergency	11
Erysipelas	8
Raynaud's Disease	1
Carcinoma	4
Diphtheria Culture for Diagnosis	38
Diphtheria Cultures for release	20
Dressings	42

I made 335 child welfare and prenatal calls. There were 178 births, and 17 deaths under one year of age.

In addition to other work I made 227 Sanitary visits. There were 70 complaints made to the Board of Health about unsanitary conditions.

Diphtheria, Scarlet Fever, and Measles occurred in epidemic form. The Diphtheria was mostly nasal which is especially difficult to control owing to its similarity to a bad catarrhal head cold, and is treated as such by parents who fail to call a physician before others are infected.

It seems that the epidemic of Scarlet Fever was due to its being so mild that the patient having it did not seek medical advice before the infection was spread. It is perhaps wise to recommend at this time the separation of members of a family suffering from any signs of illness that may become detrimental to others.

There are more Typhoid Fever cases in Andover this year than for many years previous, but after histories were compiled it was found they were all imported cases. Owing to precaution and disinfection there were no secondary cases.

Clinics attended, Tuberculosis, Child Welfare, Cancer, eye, ear, nose, and throat, and dental.

Public Health conferences attended, Boston, Rhode Island, New York and Haverhill.

Several visits were received from representatives of the State Department of Health, including Doctor Simpson, our district health officer, Miss Ashley, nursing assistant, the late Doctor Gallivan of the Division of Tuberculosis, and Doctor Drury of the Division of Food and Drugs.

Many Doctors attending the Public Health class of Harvard University were assigned to Andover for public health survey. There were Doctors from Bombay, India, Czecho Slovakia, Serbia, Maine and Kentucky. Visits were made to local dairies producing ordinary and certified milk, also schools and factories.

Hogs have been a great source of complaint and it has been necessary to investigate this problem very closely.

In view of the recent rules relating to Bakeries promulgated by the State Department of Health an inspection was made in company with one of their representatives, and their recommendations will be carried out.

I would like to emphasize that all complaints to the Board must be made in writing and that all cases suffering from any communicable disease MUST be reported to the local Board of Health.

Respectfully submitted,

LOTTA JOHNSON, R. N.

AUDITORS' CERTIFICATE

We have examined the accounts of the several town officers and find them correctly cast, with satisfactory vouchers for all payments.

The Town Treasurer has on deposit in Andover National Bank and cash on hand:

General Fund	\$20526.48
Town Farm Sale	30145.23
Water Loan	2707.38
Sewer Loans	2533.81
World War Memorial Committee	2000.00
War Memorial Book	66.90
Town Farm Committee	300.00
	<hr/>
	\$58279.80

JOHN S. ROBERTSON
WALTER H. COLEMAN
HARRY SELLARS

Auditors

PUNCHARD FREE SCHOOL

REV. CHARLES W. HENRY, *President*

HARRY H. NOYES, *Clerk and Treasurer*

REV. E. VICTOR BIGELOW

MYRON E. GUTTERSON

REV. NEWMAN MATTHEWS

FREDERIC S. BOUTWELL

WILLIAM ODLIN

EDMOND E. HAMMOND

REPORT OF TREASURER

PRINCIPAL FUND

January 1, 1921		
Cash in banks	\$ 7677.16	
Real estate, mortgages and bonds	68977.12	
Transferred from income account	200.00	
	<hr/>	\$76854.28
December 31, 1921		
Cash in banks	10911.21	
Real estate, mortgages and bonds	65943.07	
	<hr/>	76854.28
January 1, 1921		
Cash in banks	7677.16	
Mortgages paid during year	8880.00	
Transferred from income account	200.00	
	<hr/>	16757.16
December 31, 1921		
Cash in banks	10911.21	
Invested in new mortgages and bonds	5845.95	
	<hr/>	16757.16

INCOME

January 1, 1921		
Cash in Bank	1661.54	
Interest	4100.87	
	<hr/>	5762.41

EXPENDITURES

N. C. Hamblin, Principal	800.00
Helen M. Dunn, instructor	1550.00
Hazel Underwood, instructor	1600.00
Rogers and Angus, insurance	25.00
	<hr/>
<i>Amount carried forward</i>	\$3975.00

<i>Amount brought forward</i>	\$3975.00	
Andover National bank—box rent	5.00	
Interest on bonds	54.58	
City of Boston — taxes	54.69	
Horace H. Atherton, legal papers	2.00	
Stationery	3.42	
Harry H. Noyes, Treasurer	200.00	
Transferred to principal account	200.00	
Balance	1267.72	
	<hr/>	5762.41

BARNARD FUND

January 1, 1921		
Cash in bank	25.50	
Dividends	40.00	
	<hr/>	65.50
Prizes awarded		
First	20.00	
Second	12.00	
Third	8.00	
December 31, Cash in bank	25.50	
	<hr/>	65.50

DRAPER FUND

January 1, Cash in bank	1402.25	
Dividends	70.97	
	<hr/>	1473.22
Scholarship — Dorothy M. Ryley	30.00	
December 31, 1921		
Cash in Andover National Bank	30.00	
Cash in Andover Savings Bank	1413.22	
	<hr/>	1473.22

GOLDSMITH FUND

January 1, 1921

Cash in bank	260.32	
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Dividends	13.15	
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	<hr/>	273.47
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Prizes awarded	10.00	
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December 31, Cash in bank	263.47	
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	<hr/>	273.47
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HARRY H. NOYES, *Treasurer*

REPORT OF COMMITTEE ON TOWN FARM

In accordance with the vote of the special town meeting November 1, 1921 that the selectmen be a committee on ways and means for housing the inmates of the Town Farm and that they have power to add two other members to the committee, the names of Mrs. Annie Swanton, matron at the Farm and Perley F. Gilbert, the well-known architect, were added. The committee has visited several institutions of this kind and have been in consultation with Mr. Bardwell, State inspector of Alms-houses. After long consideration the committee feels that a new building should be erected and accordingly Mr. Gilbert has prepared plans and specifications, which will be submitted with estimates of cost, at the coming annual town meeting.

The question of a site for the new building has also been given long consideration and the three following locations are suggested to the citizens of the town: Carmel Woods lot, land at junction of Burnham road and High street, and land on the plains at Ballardvale, all of which locations are owned by the town.

WALTER S. DONALD
CHARLES BOWMAN
ANDREW McTERNEN
ANNIE SWANTON
PERLEY F. GILBERT

Committee.

REPORT OF COMMITTEE ON REPRESENTATIVE TOWN MEETING

In making this report, your committee has had in mind two factors, the immediate need of the Town of Andover for a change in its form of government and possibilities for the future.

We do not find that an emergency exists which requires increased accommodation under the use of the printed voting list, but with a rapid increase in our population the question may arise in the near future. Suggestions and plans for civic improvement in the form of new and commodious buildings are now in the hands of a committee, and we are unable to foretell what the carrying out of these plans may accomplish in overcoming such an emergency. We have therefore, after a study of plans now in use in various towns in our Commonwealth, and consultation with the officials at the State House who are familiar with the framing of laws for the several towns now working under this new form of government, come to the conclusion, that the wise course to pursue is the printing in the annual report of the town, a sample act drawn from the plans now in operation, that the voters may have at hand for study and consideration such changes as are essential in the acceptance of an act to establish a so-called representative town meeting government.

We do not at this time advise or repudiate the acceptance of such an act, but do advise a general discussion of this, or some similar act, at the annual town meeting in March 1922, with the hope that whatever may be decided will be in harmony with the best traditions of our town.

Respectfully submitted,

CHARLES E. ABBOTT
GEORGE L. AVERILL
JOSEPH L. BURNS
BARTLETT C. HAYES
GEORGE A. HIGGINS

THE COMMONWEALTH OF MASSACHUSETTS

In the Year One Thousand Nine Hundred and Twenty-Two.

AN ACT

To provide for Precinct Voting, Representative Town Meetings, Town Meeting Members, a Referendum and an Annual Moderator in the Town of Andover.

Be it enacted by the Senate and House of Representatives in General Court assembled, and by the authority of the same, as follows:

SECTION 1. Upon the acceptance of this act by the town of Andover as hereinafter provided the selectmen of the town and the board of assessors, acting jointly and hereinafter referred to as the districting board, shall forthwith divide the territory thereof into not less than four voting precincts, each of which shall be plainly designated, and shall contain approximately an equal number of registered voters. Such precincts shall be so established as to consist of compact and contiguous territory, to be bounded as far as possible, by the centre line of known streets and ways and by other well-defined limits. Their boundaries shall be reviewed and, if need be, wholly or partly revised, by the districting board, in December, once in five years, or in December of any year when directed by a vote of the preceding annual town meeting. The districting board shall, within ten days after any establishment or revision of the precincts, file a report of their doings with the town clerk, the registrars of voters, and the assessors, with a map or maps or description of the precincts and the names and residences of the registered voters therein. The

districting board shall also cause to be posted in the town hall a map or maps or description of the precincts as established or revised from time to time, with the names and residences of the registered voters therein; and they shall also cause to be posted in at least one public place in each precinct a map or description of that precinct, with the names and residences of the registered voters therein. The division of the town into voting precincts and any revision of such precincts shall take effect upon the date of the filing of the report thereof by the districting board with the town clerk. Whenever such precincts are established or revised, the town clerk shall forthwith give written notice thereof to the secretary of the commonwealth, stating the number and designation of such precincts. Meetings of the voters of the several precincts for elections, for primaries, and for voting upon any question to be submitted to all the voters of the town shall be held on the same day and at the same hour, and at such place or places within the town as the selectmen shall in the warrant for such meeting direct. The provisions of chapter eight hundred and thirty-five of the acts of the year nineteen hundred and thirteen and any amendments thereof relating to precinct voting at all elections, so far as the same are not inconsistent with this act, shall apply to all elections and primaries in the town upon establishment of voting precincts as hereinbefore provided.

SECTION 2. The registered voters in each such precinct shall, at the first annual town election held after the establishments of such precincts, and conformably to the laws relative to elections not inconsistent with this act, elect by ballot thirty such voters in such precinct other than the officers hereinafter designated in section three of this act as town meeting members at large, such elected voters to be town meeting members of the town, one third of whom shall be elected for the term of one year, one third for the term of two years and one-third for the term of three years from the date of the annual town meeting; and thereafter, except as hereinafter provided, at each annual town election the registered voters of each precinct in the town shall, in like manner, elect ten of their number to be town meeting members of the town for the term of three years, and shall at such election fill

for the unexpired term or terms any vacancies then existing in the number of town meeting members in their respective precincts. Upon every revision of the precincts or of any of them the term or terms of office of all town meeting members from each and every such revised precinct shall cease upon the election of their successors, and at the first ensuing annual town election there shall be an entirely new election of town meeting members in each and every precinct so revised, as well as in any new precinct or precincts established. The town clerk shall, after every election of town meeting members, forthwith notify each member by mail of his election.

SECTION 3. Any town meeting held under the provisions of this act, except as otherwise provided, shall, at and after the first annual election held under this act, be limited to the registered voters elected under section two and together with the following, designated as town members at large; namely, any member of the general court of the commonwealth of Massachusetts, from the town; the moderator, the town clerk, the selectmen, the town treasurer, the town counsel, if a voter of the town, the town collector of taxes, the town auditor or auditors, the chairman of the school committee, the chairman of the trustees of the public library, the chairman of the board of health, the chairman of the park commission, the chairman of the water commissioners, the tree warden, the chairman of the board of public works and Spring Grove cemetery trustees, the chairman of the assessors of taxes, the chairman of the sinking fund commission, and the chairman of the finance committee. The town clerk shall notify the town meeting members of the time and place at which town meetings are to be held, such notices to be sent by mail at least seven days before any such meeting. The town meeting members, as aforesaid, shall be the judges of the election and qualification of their members. A majority of the town meeting members shall constitute a quorum for doing business; but a less number may organize temporarily and may adjourn from time to time. Notice of every adjourned town meeting shall be posted by the town clerk in each precinct in one or more public places, and such notices shall state briefly the business to be acted

upon at such meeting and shall include notice of any proposed reconsideration. All town meetings shall be public. The town meeting members as such shall receive no compensation. Subject to such conditions as may be determined from time to time by the members of representative town meeting any voter of the town who is not a town meeting member may speak, but he shall not vote. A town meeting member may resign by filing a written resignation with the town clerk, and such resignation shall take effect on the date of such filing. A town meeting member who removes from the town or from the precinct from which he was elected shall cease to be a town meeting member.

SECTION 4. Nominations of candidates for town meeting members to be elected under this act shall be made by nomination papers which shall bear no political designation, and signed by not less than ten registered voters of the precinct in which the candidate resides and filed with the town clerk at least ten days before the election. No nomination papers shall be valid in respect to any candidate whose written acceptance is not thereon or attached thereto.

SECTION 5. The articles in the warrant for every town meeting, so far as they relate to the election of the moderator, town officers, and town meeting members, as hereinbefore provided, to granting licenses for the sale of intoxicating liquors, referenda, and all matters to be acted upon and determined by ballot, shall be so acted upon and determined by the registered voters of the town in their respective precincts. All other articles in the warrant for any town meeting shall be acted upon and determined exclusively by town meeting members at a meeting to be held at such time and place as shall be set forth by the selectmen in the warrant for the meeting, and subject to the referendum provided for by section eight.

SECTION 6. A moderator shall be elected by ballot at each annual town meeting and shall serve as the moderator of all town meetings except as otherwise provided by law until his successor is elected and qualified. Nominations for moderator

and his election shall be as in the case of other elective town officers, and any vacancy in such office may be filled by the town meeting members at a town meeting held for that purpose. If a moderator is absent, a moderator pro tempore may be elected by the town meeting members.

SECTION 7. Any vacancy in the full number of town meeting members from any precinct may be filled until the next annual election by the remaining members of the precinct from among the registered voters thereof. Upon petition therefor, signed by not less than ten town meeting members from the precinct, notices thereof shall be promptly given by the town clerk to the remaining members from the precinct in which such vacancy or vacancies exist, and he shall call a special meeting of such members for the purpose of filling any vacancy. He shall cause to be mailed to each of such members, not less than four days before the time set for such meeting, a notice, specifying the object and the time and the place thereof. At such meeting a majority of the members shall constitute a quorum, and they shall elect from their own number a chairman and a clerk. The choice to fill any such vacancy shall be by ballot and a majority of the votes cast shall be required for a choice. The chairman and clerk shall make a certificate of such choice and forthwith file the same with the town clerk, together with a written acceptance by the member or members so chosen, who shall thereupon be deemed elected and qualified a town meeting member or members, subject to the right of all the town meeting members to judge of the election and qualifications of members as set forth in section three.

SECTION 8. No article in the warrant shall at any representative town meeting be finally disposed of by a vote to lay upon the table, to indefinitely postpone, or to take no action thereunder. No vote passed at any representative town meeting under any article in the warrant except a vote to adjourn or a vote for the temporary borrowing of money in anticipation of taxes shall be operative until after the expiration of seven days, exclusive of Sundays and holidays, from the dissolution of such meeting. If, within said seven days a petition, signed by not less than five

per cent of the registered voters of the town, containing their names together with their street addresses, is filed with the selectmen, asking that the question or questions involved in such vote be submitted to the voters of the town at large, then the selectmen within fourteen days of the filing of such petition, shall call a special meeting which shall be held within ten days after the issuing of the call, for the sole purpose of presenting to the voters at large the question or questions so involved. The polls shall be opened at two o'clock in the afternoon and shall be closed not earlier than eight o'clock in the evening, and no ballots shall be removed or counted before the closing of the polls, and all votes upon any questions submitted shall be taken by ballot and the check list shall be used in the several precincts in the same manner in which they are used in the election of town officers. Such question or questions as may be submitted at said town meeting shall be determined by the vote of a majority of such registered voters at large voting thereon at said special town meeting. The question or questions submitted to be voted upon at said town meeting shall be stated upon the ballot in the same language and form as said question or questions were stated when presented to said representative town meeting by the moderator, and as the same shall appear upon the records of the said representative town meeting. If such petition be not filed within the said period of seven days the vote in the representative town meeting shall become operative and effective upon the expiration of said period.

SECTION 9. The town of Andover after the acceptance of this act, shall have the capacity to act through and to be bound by its said town meeting members who shall, when convened from time to time as hereinunder provided, constitute representative town meetings; and such representative town meetings shall exercise exclusively, so far as shall conform to the provisions of this act, all powers vested in the municipal corporation of the town. Action in conformity with all provisions of law now or hereafter applicable to the transaction of town affairs in town meetings shall, when taken by any representative town meeting in the town in accordance with the provisions of this act, have the

same force and effect as if said action had been taken in a town meeting, open to all the voters of said town, as heretofore organized and conducted.

SECTION 10. This act shall not abridge the right of the citizens of Andover to hold general meetings, according to any right secured to its voters or to the people by the constitution of this commonwealth; nor shall this act confer upon any representative town meeting in Andover the power finally to commit the town to any proposition affecting its municipal existence or change in the form of its government, without action thereon by the voters of the town at large, using the ballot and check lists therefor.

SECTION 11. The question of the acceptance of this act by the town of Andover shall be submitted to the registered voters of that town at any annual or special town meeting to be called for the purpose. At such election the vote shall be taken by ballot in accordance with the provisions of chapter eight hundred and thirty-five of the acts of the year nineteen hundred and thirteen and any amendment thereof, so far as the same shall be applicable, in answer to the question: "Shall an act passed by the general court in the year nineteen hundred and twenty-two, entitled 'An act to provide for precinct voting, representative town meetings, town meeting members, a referendum and an annual moderator in the town of Andover' be accepted by this town?" and the affirmative votes of a majority of the registered voters of that town present and voting thereon shall be required for and shall determine its acceptance by that town. So much of this act as authorizes its submission to the registered voters of the town of Andover shall take effect upon its passage, but this act shall not take further effect unless and until accepted by the town of Andover as herein provided.

REPORT OF COMMITTEE ON SCHOOL CONDITIONS IN SHAWSHEEN VILLAGE

The School committee has made a careful survey of school conditions at Shawsheen Village, and is convinced that at least 200 pupils will be located in the Richardson School district in 1922, with a further steady increase as the village development goes on. The present building has two good sized rooms and one smaller one, all of which have now become overcrowded so that it will be necessary to do something to relieve the situation at once.

About 105 pupils are now in attendance at the Richardson School, and the additional 100 pupils expected in 1922 would require four additional rooms. The development of the situation should be made not only from the standpoint of this immediate requirement, but with full consideration of future requirements. The first step should provide for securing sufficient land to accommodate not only the initial unit to be constructed, but the addition of several units as they may be needed, and playground and athletic facilities to serve requirements as the same are determined by the growth of the village.

The present lot of land is not sufficient to care for this need, nor is the location capable of providing such added area as will ultimately be required. The center of the present school population in Shawsheen Village is in the vicinity of the junction of Warwick street with North Main street, with a future development contemplated on both sides of Main street that will evidently hold this same center when the development is completed. Available sites can now be secured before the full development takes place, and the committee recommends that immediate action be taken by the town to secure one of such sites, substantially in accordance with an article submitted herewith:—

ARTICLE 11. To see if the town will authorize the Selectmen and the School committee to serve as a joint committee to select

a suitable lot of land for municipal or town purposes in the district known as Shawsheen Village.

If land that may be selected cannot be acquired by purchase, to authorize the Selectmen on behalf of the town to exercise the right of taking by eminent domain, awarding damages for land that may be taken, and making a report of their action at a special town meeting to be called not later than April 15, 1922, with a recommendation for an appropriation to cover the award and for such further action as may be necessary.

DR. EDWARD C. CONROY, Chairman

DAVID R. LAWSON, Secretary

School Committee

TOWN WARRANT

THE COMMONWEALTH OF MASSACHUSETTS

ESSEX, ss.: To either of the Constables of the Town of Andover: GREETING:

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in elections and in town affairs to meet and assemble at the Town House in voting Precinct One and the Old School House Ballard Vale in voting Precinct Two, in said Andover, on MONDAY, the SIXTH DAY OF MARCH, 1922, at 6 o'clock a.m., to act on the following articles:

Article 1. — To elect a Moderator for one year, Town Clerk for one year, Treasurer for one year, Collector of Taxes for one year, one member of the Board of Selectmen for three years, one member of the Board of Assessors for three years, three members of the School Committee for three years, Five Trustees of Punchard Free School for three years, two members of the Board of Public Works for three years, one member of the Board of Health for three years, three Auditors of accounts for one year, three Constables for one year, one Trustee of Memorial Hall Library for seven years, one Tree Warden for one year and all town officers required by law to be elected by ballot. Also to take action on the following question, Shall licenses be granted for the sale of certain non-intoxicating beverages in this town?

All to be voted for on one ballot. The polls will be open from 6 o'clock a.m. to 5 o'clock p.m.

After final action on the preceding article one, the said meeting shall stand adjourned by virtue of Section 20, Chapter 39 of the General Laws to Monday March 13th, at 1.30 o'clock p.m. at the Town Hall, then and there to act upon the following Articles, namely:

Article 2. — To elect all other officers not required by law to be elected by ballot.

Article 3. — To determine what sums of money shall be appropriated for Almshouse Expenses, Relief out of Almshouse, Aiding Mothers with Dependent Children, Board of Health, Brush Fires, Fire Department, Hay Scales, Highway Department, Insurance, Interest, Memorial Hall Library, Memorial Day, Post 99, G. A. R., Miscellaneous, Parks and Playsteads, Police, Printing and Stationery, Public Dump, Retirement of Veterans, Redemption of Water, Sewer, High School, and Shawsheen Bridge Bonds, Schools, Sewer Maintenance, Sewer Sinking Funds, Soldiers' Relief, Spring Grove Cemetery, State Aid, Street Lighting, Town Officers, Town House, Tree Warden, Moth Department, Water Maintenance, Construction and Sinking Funds, and other town charges and expenses.

Article 4. — To see if the town will approve the recommendation of the Board of Public Works and vote to reconstruct the highway on Main Street from Chapel Avenue to Andover Square, with macadam pavement or other road material in accordance with plans and specifications prepared by the State Department of Public Works, Division of Highways. Also to see if the town will vote that said work of reconstruction be done by contract under the supervision of the Board of Public Works at an expense not to exceed \$100,000. Also to see if the town will vote that notes or bonds of the town be issued to raise funds for the payment of work undertaken under this article, payable annually in the years 1923, 1924, 1925, 1926 and 1927, in conformity with Chapter 44 of the General Laws.

Article 5. — To see if the Town will authorize and direct the Board of Public Works to petition the legislature for authority to issue bonds or notes, outside the statutory limit to the amount of \$40,000. to be denominated on the face thereof "Andover Water Loan, Act of 1922", said loan to be for the purpose of making necessary changes in and extending the present system of water works in the town of Andover under such terms and

conditions as the General Court may provide, on petition of the Board of Public Works.

Article 6. — To see if the town will authorize and direct the Board of Public Works to petition the Legislature for authority to borrow \$200,000. outside the statutory limit of indebtedness, by bond issue or otherwise, for the following purposes; To construct and maintain a pipe line, in accordance with plans approved by the State Board of Health, for the purpose of disposing of the sewage of the Town of Andover, said pipe line to extend from Andover through the City of Lawrence to the Merrimack River, and to authorize the purchase or taking of land in said Andover and Lawrence necessary for said site and to award and pay damages for said purchases or takings. On petition of the Board of Public Works.

Article 7. — To see if the town will appropriate the sum of \$15,000.00 as their share of the cost in the reconstruction of Main street by the State, through Shawsheen Village on petition of the Board of Public Works.

Article 8. — To see if the Town will appropriate the sum of \$5,748.08 to pay the balance due on Haverhill Street Sewer on petition of the Board of Public Works.

Article 9. — To hear the report of the committee on housing the inmates of the Town Farm and to see if the town will appropriate the sum of \$10,000. in addition to the \$30,000. now on hand, received from the sale of the Town Farm property, for the purpose of erecting a new building and other necessary expenses.

Article 10. — To see if the town will appropriate the sum of Three thousand (\$3000) dollars to purchase the property in Whittier Court, adjacent to the Playstead, known as the Cunningham property, and consisting of approximately one (1) acre of land with the buildings thereon, on petition of Frederic S. Boutwell and others.

Article 11. — To see if the town will authorize the Selectmen and the School Committee to serve as a joint committee to select a suitable lot of land for municipal or town purposes in the district known as Shawsheen Village. If the land that may be selected cannot be acquired by purchase, to authorize the Selectmen on behalf of the town to exercise the right of taking by eminent domain, awarding damages for land that may be taken, and making a report of their action at a special town meeting to be called not later than April 15, 1922, with a recommendation for an appropriation to cover the award and for such further action as may be necessary, on petition of the School Committee.

Article 12. — To hear and act upon the report of the War Memorial Committee.

Article 13. — To see if the town will, for the purpose of providing a suitable headquarters for a post of the American Legion, approve the leasing of a building or part of a building which shall be under the direction and control of such post subject to such regulations as the town may adopt, and to see if the town will appropriate for the current year the sum of not more than \$1500 therefor, as provided for in General Laws, Chapter 40, Section 9, on petition of the War Memorial Committee.

Article 14. — To see if the town will adopt changes in the voting precincts of the town as recommended by the Selectmen in a statement filed with the Town Clerk in accordance with the provisions of Section 7, Chapter 54 of the General Laws.

Article 15. — To see if the Town will accept the provisions of Sections 42, 43 and 44 of Chapter 48 of the General Laws relating to the establishment of a fire department under the control of an officer to be known as the Chief of the Fire Department.

Article 16. — To see if the town will accept as a town way, as laid out by the Selectmen, the street now known as Magnolia Avenue extending from the junction of Corbett Street and Poor Street, and running northerly 1148 feet and 39 feet in width to land now owned by James Mulligan, on petition of James Mulligan and others.

Article 17. — To see if the town will appropriate the sum of \$150. for the purpose of engraving into the Pilgrim Memorial Monument at Provincetown the name of the Town of Andover and the year of its incorporation, on petition of John H. Soehrens and others.

Article 18. — To hear and act on the report of the committee appointed to consider the matter of a representative town meeting for the Town of Andover.

Article 19. — To fix the pay of the call firemen for the ensuing year.

Article 20. — To determine the method of collecting the taxes for the ensuing year.

Article 21. — To authorize the Town Treasurer to hire money for the use of the town in anticipation of the revenue of the current financial year, with the approval of the Selectmen.

Article 22. — To determine what disposition shall be made of unexpended appropriations.

Article 23. — To act upon the report of the Town Officers.

Article 24. — To determine the amount of money to be raised by taxation the ensuing year.

Article 25. — To transact any other business that may legally come before the meeting.

And you are directed to serve this warrant by posting attested copies and publication thereof, seven days at least before the time of said meeting as directed by the By-Laws of the town.

Hereof fail not and make return of this warrant with your doings thereon, at the time and place of said meeting.

Given under our hands this twenty-third day of February, A.D. 1922.

WALTER S. DONALD
CHARLES BOWMAN
ANDREW McTERNEN

Selectmen of Andover

RECOMMENDATIONS OF FINANCE COMMITTEE

The Finance Committee has given careful consideration to the budgets of the various town departments for 1922 also to the special articles in the warrant calling for appropriations and gives herewith its recommendations.

It is unfortunate that the department budgets are not presented to the finance committee at an earlier date in order to give opportunity for more full discussion of the department requirements. It is suggested that all departments prepare their budgets for next year as early as possible and present them to the finance committee by Jan. 1st, in writing, with full details, and with definite recommendations for action by the town.

If full and careful investigation of all projects are made by the departments, and all problems are thoroughly worked out in department meetings before presenting them to the finance committee much time can be saved and more information can be given the town which will assist the voters in arriving at a decision on expenditure of the town money.

During the year we have been able to be of assistance in having a survey made of the fire protection service by the New England Insurance Exchange which has given valuable data and suggestions to the Water and Fire Depts.

At the time of the heavy ice storm the hearty co-operation of the various departments was secured to effectively and promptly clear the streets and to take care of the necessary financing for the emergency.

A new plan of town accounting has been prepared which is based on the State forms but on account of some changes necessary to make it effective it is planned to present this for approval next year.

RECOMMENDATIONS

Almshouse	\$ 6000.00
(This sum is required for the running expenses of the Town Farm.)	
Almshouse Relief out.	5000.00
(Because of the business depression the demands on this department are greater than ever before and it is estimated by the Overseers of the Poor that at least five thousand dollars—one thousand dollars more than last year—will be required for the coming year.)	
Aiding Mothers with Dependent children	2500.00
Board of Health	3300.00
Brush Fires	600.00
Election and Registration	1000.00
(This item was formerly carried under the appropriation for miscellaneous expenditures and town officers.)	
Essex County Tuberculosis Hospital	2700.00
(Andover must pay approximately fourteen hundred dollars toward the running expenses of this institution for the period from June to December 1921. The Finance Committee recommend that thirteen hundred dollars additional be appropriated to meet Andover's proportion of this expense during 1922.	
Fire Department	23000.00
	and receipts
It was recommended last year that consideration be given to the organization of the Department to see if some saving in cost could not be made without impairing the fire fighting efficiency. The selectmen have considered the matter and now propose a permanent chief, the giving up of the board of engineers, and the dropping of several call men. The net	
<i>Amount carried forward</i>	\$44100.00

Amount brought forward

\$44100.00

result will be an increase in the rate of annual expenditure of a few hundred dollars but a gain in efficiency which it is believed fully justifies the proposed changes.

No reduction in the cost of the department appears possible for the coming year. In order to get for the town a larger return for the money spent, over half of which goes to pay the salaries of the permanent men, it is the intention to enlarge and improve the inspection service which the permanent firemen have been performing to some extent. This has proved valuable in other places and under the proposed new organization it should be possible to make it render an important service to the citizens of Andover in helping to remove unnecessary fire risks.

Much good work was done during the past year by the permanent men in refitting the pumping engine and doing other similar work in the way of keeping the apparatus and general equipment in the best possible condition. The adoption of the two-platoon system very much increased the cost of the department, but if work of this kind can be done by the regular men, either for the upkeep of the fire department or for other town departments the citizens will obtain a reasonable return for the money spent.

Hay Scales

\$125.00

Highway Department

60000.00

Maintenance

\$30000.00

New Construction

30000.00

(This sum is the same as was appropriated last

Amount carried forward

\$104225.00

Amount brought forward

\$104225.00

year, viz: \$30,000 for maintenance and \$30,000 for new construction. The new construction contemplated includes Phillips Street, Abbot Street and Essex Street from the railroad crossing to Shawsheen Road and Shawsheen Road from Essex Street to Stevens street. The Finance Committee is advised by the Board of Public Works that when Phillips and Abbot Streets are built the program of road construction in the center of the town will be approximately completed and a substantially smaller appropriation will be required next year for new work.)

Interest		14000.00
Insurance		5500.00
Fire	\$3000.00	
Workmen's Compensation	2500.00	
Library		3000.00
Memorial Day		550.00
G. A. R.		100.00
Miscellaneous		1200.00
Parks and Playsteads		1200.00
Police Department		11000.00
(This appropriation includes the sum of \$600. for the purchase of an automobile truck for the use of the Police Department.)		
Printing and Stationery		2000.00
Public Dump		75.00
Retirement of Veterans		300.00
Retirement of Bonds		15500.00
Sewer	\$7000.00	
High School	6000.00	
Haverhill St. Bridge	2500.00	
Schools		103420.00
(This is the amount that was appropriated last year.)		

Amount carried forward

\$262070.00

<i>Amount brought forward</i>		\$262070.00
Sewer Department		4000.00
Labor and Power	\$3000.00	
Sinking Fund	1000.00	
Soldiers' Relief		1500.00
Spring Grove Cemetery		2500.00
		and receipts from sale of lots

(The Finance Committee is advised by the Cemetery Trustees that the sum of fifteen hundred dollars and the receipts from the sale of burial lots is required for the upkeep of the Cemetery and one thousand dollars is the sum required for development work.)

State Aid	1000.00
Street Lighting	\$200.00

(This recommendation is based on the present street lighting installation, viz:

300— 60 Watt lights at	\$17.50	\$5250.00
4—100 Watt lights at	28.00	112.00
56—250 Watt lights at	49.50	2772.00
and an additional		
10—60 Watt lights at	\$17.50	175.00

\$8309.00

(There is still some question as to the amount of light which should be provided in several sections of the town and the Lighting Committee proposes to make some further experiments. The recommendation of last year is repeated, viz: that there should be equality of lighting for all sections of the town when the conditions are generally similar.)

Town Officers	10000.00
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(This includes the salaries of the Town Officers in the following amounts: Selectmen, \$2500, Town Clerk and Treasurer, \$2400, Collector

<i>Amount carried forward</i>	\$289270.00
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Amount brought forward \$289270.00

of Taxes, \$1800, Premium on bonds for collector and treasurer, \$180, Stenographer, \$1040, Auditor, \$300, Moderator, \$10, Building Inspector, \$500, Sealer of weights and measures, \$200, Town Counsel, \$400, Field driver \$25, and expenses of Town Officers, \$500.)

Town House 3000.00

Tree Warden and Moth Work \$12900.00

(This year Andover is required by the State to spend \$4300 for moth work. In addition it is recommended that \$1200 be appropriated for repairs and replacements of the equipment used in moth work: this includes \$350 for a small power sprayer. The care of trees has cost the town \$2400 since January first of this year and \$5000 more will be required to repair the damage done by the recent storm and carry on the regular work of this department. Last year the Finance Committee suggested the advisability of a closer connection between the Tree Warden and Moth work department and the Board of Public works. The experience of the past year confirms the Finance's Committee opinion that these departments should be consolidated and a bill has been presented to the Legislature calling for the abolition of the office of Tree Warden and the placing of the duties of this department with the Board of Public Works; if this bill is passed by the Legislature it will be brought before the voters for action.)

Water Dept. 6750.00

Under the plan adopted at the town meeting in March 1921 the Water Dept. is now operated by a separate business under the Board of Public Works. The estimates for 1922 are as follows:

Amount carried forward \$311920.00

Operation	\$20000.00
Construction	2000.00
Retirement of Bonds	8000.00
Interest on Bonds	4000.00
Sinking Fund	750.00
	<hr/>
	34750.00
Total receipts expected	28000.00
	<hr/>
	6750.00

(Difference to be appropriated by Town and which may be considered payment to the Water department for furnishing water for fire fighting.)

The Finance Committee respectfully recommends the following action regarding the articles in the warrant:—

Article 4. To see if the town will approve the recommendation of the Board of Public Works and vote to reconstruct the highway on Main Street from Chapel Avenue to Andover Square with macadam pavement or other road material in accordance with plans and specifications prepared by the State Department of Public Works. (Division of Highways) Also to see if the town will vote that said work of reconstruction be done by contract under the supervision of the Board of Public Works at an expense not to exceed \$100,000. Also to see if the town will vote that notes or bonds of the town be issued to raise funds for the payment of work undertaken under this article, payable annually in the years 1923, 1924, 1925, 1926, and 1927, in conformity with chapter 44 of the General Laws.

(Approved.—The condition of Main street is such that immediate action is advisable. Much traffic is now directed to School and Bartlet Streets because of the condition of Main Street, and as a result both these streets, built for light vehicle traffic, are wearing fast. The type of traffic passing over Main Street demands construction of the substantial

type called for in the above article. Arrangements for the relocating of the street railway tracks, the placing of conduits for underground wiring and the renewal and installation of all necessary sewer, gas and water pipes are matters which must be cared for in connection with the street construction.)

Article 5. To see if the Town will authorize and direct the Board of Public Works to petition the legislature for authority to issue bonds or notes, outside the statutory limit to the amount of \$40,000. to be denominated on the face thereof "Andover Water Loan, Act of 1922", said loan to be for the purpose of making necessary changes in and extending the present system of water works in the town of Andover under such terms and conditions as the General Court may provide, on petition of the Board of Public works.

(Approved.—This amount will be needed for extension which should be made in the near future and is approved. It is recommended that only as much of it as required for the most pressing needs be expended this year.)

Article 6. To see if the Town will authorize and direct the Board of Public Works to petition the Legislature for authority to borrow \$200,000. outside the statutory limit of indebtedness, by bond issue or otherwise, for the following purposes: To construct and maintain a pipe line, in accordance with plans approved by the State Board of Health, for the purpose of disposing of the sewage of the Town of Andover, said pipe line to extend from Andover through the City of Lawrence to the Merrimack River, and to authorize the purchase or taking of land in said Andover and Lawrence necessary for said site and to award and pay damages for said purchases or takings. On petition of the Board of Public Works.

(Not approved.—Some improvement in the present methods of handling the sewage of the town is necessary and the approval of the State Dept. of Health must be obtained before any plan can be adopted. This is a problem of much im-

portance and further information is needed on several points before any plan can be approved. It is expected that additional facts will be available before the town meeting so that it may be possible then to advise more definitely.)

Article 7. To see if the Town will appropriate the sum of \$15,000.00 as its share of the cost in the reconstruction of Main Street by the State, through Shawsheen Village on petition of the Board of Public Works.
(Approved.)

Article 8. To see if the Town will appropriate the sum of \$5,748.08 to pay the balance due on Haverhill Street Sewer on petition of Board of Public Works.
(Approved.)

Article 9. To hear the report of the committee on housing the inmates of the Town Farm and to see if the town will appropriate the sum of \$10,000. in addition to the \$30,000. on hand, received from the sale of the Town Farm property, for the purpose of erecting a new building and other necessary expenses. (Not approved.)

(The Finance committee recommends that the town shall provide proper housing facilities for the poor at a cost not to exceed \$30,000. and if possible an existing building be secured which can be adequately fitted to serve the needs of the town for an almshouse at a cost not to exceed \$20000. These limitations are recommended because there is much uncertainty as to what the future needs may be. The tendency today is to take care of the poor, as far as possible in ways other than the in old-time type of almshouse. It is believed that reasonable provision can be made for the present needs, with opportunity for a small increase in numbers, within the expenditures recommended. One of the arguments advanced for selling the old property was that it would permit taking care of the unfortunate under simpler and more economical conditions. It is therefore undesirable to now re-establish a large institution of this kind. If a new build-

ing is erected it should be so designed that moderate extensions could be made readily and at a reasonable cost, thus putting the town in a position to meet such future needs as might develop.)

Article 10. To see if the town will appropriate the sum of Three Thousand Dollars (\$3000) to purchase the property in Whittier Court adjacent to the Playstead, known as the Cunningham property, and consisting of approximately one (1) acre of land with the buildings thereon, on petition of Frederic S. Boutwell and others.
(Approved.)

Article 11. To see if the town will authorize the Selectmen and the School Committee to serve as a joint committee to select a suitable lot of land for municipal or town purposes in the district known as Shawsheen Village. If land that may be selected cannot be acquired by purchase, to authorize the Selectmen on behalf of the town to exercise the right of taking by eminent domain, awarding damages for land that may be taken, and making a report of their action at a special town meeting to be called not later than April 15, 1922, with a recommendation for an appropriation to cover the award and for such further action as may be necessary. (This article does not require action on the part of the Finance Committee.)

Article 12. To hear and act upon the report of the War Memorial Committee.

(The recommendation of the War Memorial Committee for further investigation under the condition of the original motion is approved.)

Article 13. To see if the town will for the purpose of providing a suitable headquarters for a post of the American Legion approve the leasing of a building or part of a building which shall be under the direction and control of such post subject

to such regulations as the town may adopt, and to see if the town will appropriate for the current year, the sum of not more than \$1500 therefor, as provided for in G. L. Ch. 40, Sec. 9, on petition of the War Memorial Committee.

(Approved.)

Article 17. That the name of the Town of Andover and the year of its incorporation be engraved into the Pilgrim Memorial Monument at Provincetown and to appropriate a sum of One Hundred and Fifty dollars (\$150) for the same.

(Approved.)

SUMMARY

Department appropriations recommended		\$311920.00
Special appropriations recommended		28898.00
		<hr/>
		\$340818.00
State Tax (estimated)	\$32000.00	
County Tax (estimated)	20000.00	
	<hr/>	52000.00
		<hr/>
		\$392818.00

RESOURCES

Cash	\$ 5000.00	
Corporation and Bank tax (estimated)	28000.00	
State Aid	700.00	
Outside relief	1200.00	
Sundries	2000.00	
From State for Schools	7500.00	
Income Tax	20000.00	
	<hr/>	64400.00
		<hr/>
		\$328418.00

VALUATION

	1920	1921	1922 (est.)
Personal	\$ 2042541.00	\$ 2309395.00	\$ 2309395.00
Real Estate	8044225.00	8638965.00	9438975.00
	<hr/>	<hr/>	<hr/>
	\$10086766.00	\$10948360.00	\$11748370.00

Computation of tax rate using these figures.

$$\begin{array}{r}
 \$328418 \\
 \hline
 \cdot \cdot \cdot \$28.00 \\
 \$11748370
 \end{array}$$

Respectfully submitted,

HENRY A. BODWELL, *Chairman*
 GEORGE ABBOT
 GEORGE L. AVERILL
 JOHN H. CAMPION
 E. V. FRENCH
 C. W. HOLLAND
 JOHN C. ANGUS, *Secretary*

Finance Committee

TRUSTEES OF MEMORIAL HALL LIBRARY

E. KENDALL JENKINS	ALFRED E. STEARNS
FREDERIC S. BOUTWELL	BURTON S. FLAGG
CHARLES U. BELL	NATHAN C. HAMBLIN
FREDERICK A. WILSON	

President

E. KENDALL JENKINS

Secretary and Treasurer

FREDERIC S. BOUTWELL

Librarian

EDNA A. BROWN

Assistants

JULIA E. TWICHELL	EDITH DONALD
AGATHA WADE	

In Charge of Ballardvale Branch

MARTHA D. BYINGTON

Janitor

ARCHIBALD MACLAREN

MEMORIAL HALL LIBRARY

FORTY-NINTH ANNUAL REPORT OF THE BOARD OF TRUSTEES

The trustees of the Memorial Hall Library submit herewith their annual report to the town for the year 1921.

A statement of the work done by the library will be found in the report of the librarian which follows. We urge every citizen carefully to examine it. We desire especially to commend the service rendered by Miss Brown as librarian.

The trustees are glad to co-operate with the schools in the education of our children and young people, and to be the means not only of furnishing entertainment and interest to the older residents of the town but of reminding them that education is never finished and that there is always something more to be learned. They urge every citizen to take out and read more books.

The pressing problem in the library is the need of more room. Before long the present building must be enlarged or a new one built better fitted for modern library methods. The town must keep this in mind.

There may soon be need of a branch in Shawsheen village, although the present building is not difficult of access from there. A much larger sum could well be spent for books.

Finally we commend the library to the town as one of the most important departments of our public service. It is not an experiment. For fifty years it has been a blessing and an honor to the town.

Respectfully submitted,

E. KENDALL JENKINS, *Chairman*
CHARLES U. BELL
ALFRED E. STEARNS
NATHAN C. HAMBLIN
BURTON S. FLAGG
FREDERICK A. WILSON
FREDERIC S. BOUTWELL

TRUSTEES OF MEMORIAL HALL LIBRARY

In account with the Town of Andover, Mass.

RECEIPTS

Balance from last year	\$2434.58
Town Appropriation	3000.00
Dog Tax	323.52
Income from Investments	3308.01
Fines	237.42
Gifts for Books and Periodicals	127.18
Cash paid for lost books	6.98
Sale of paper	9.00
	<hr/>
Total	\$9446.69

EXPENDITURES

Salaries	\$4571.35
Lighting and Heating	698.19
Periodicals	247.65
Bookbinding	400.35
Books	1061.57
Insurance	46.87
Office Expenses	114.23
Sundry Items	263.73
Cash on hand	2042.75
	<hr/>
Total	\$9446.69

Classification of Income and Expenditures for the Year 1921

INCOME

	<i>Maint.</i>	<i>Book</i>	<i>Cornell</i>	<i>Total</i>
Income from Investments	\$2134.87	\$827.64	\$345.50	\$3308.01
Appropriation	3000.00			3000.00
Dog Tax	323.52			323.52
Fines	237.42			237.42
Cash for lost books		6.98		6.98
Gifts	7.18	120.00		127.18
Sale of paper	9.00			9.00
	<hr/>	<hr/>	<hr/>	<hr/>
Total	\$5711.99	\$954.62	\$345.50	\$7012.11

EXPENDITURES

Salaries	\$4463.01		\$108.34	\$4571.35
Lighting and Heating	543.03		155.16	698.19
Periodicals	247.65			247.65
Book-binding	400.35			400.35
Books		1061.57		1061.57
Insurance	46.87			46.87
Office Expenses	114.23			114.23
Sundry Items	237.95		25.78	263.73
	<hr/>	<hr/>	<hr/>	<hr/>
Total	\$6053.09	\$1061.57	\$289.28	\$7403.94
Unexpended balances			56.22	
Deficits	341.10	106.95		391.83

Condition of Funds and Unexpended Income, Jan. 1922

	<i>Funds</i>	<i>Income</i>
Maintenance Fund	\$46600.00	\$ 358.37*
Book Funds	17400.00	957.05
Cornell Fund (Per.)	5000.00	407.63
Cornell Fund (Pur.)	4257.14	730.35
Special Funds		306.09
	<hr/>	<hr/>
		\$2401.12
Deficit in Inc. in Maintenance Fund		358.37
Total Funds	\$73257.14	<hr/>
Total cash on hand		\$2042.75

* Deficit.

INVESTMENTS

Bangor & Aroostook R. R. 4s	\$11000.00
Boston Elevated Ry. Co. 4s	10000.00
Boston Elevated Ry. Co., 4½s	1000.00
Chicago Railways Co., 5s	9962.50
Montreal Tramways Co., 5s	9962.50
Michigan State Tel. Co., 5s	4981.25
Boston & Albany Equip. Trust 4½s	2981.10
Boston & Maine R. R. 4s	2000.00
Pacific Tel. & Tel. Co., 5s	1000.00
American Tel. & Tel. Co., stock 4 shares	571.50
Mortgage on Real Estate	4000.00
Savings Banks	15657.14
Principal Cash	141.15
	<hr/>
Total	\$73257.14

We certify that we have examined and found correct the above statements as of January 16, 1922, whereby all securities held against the several funds have been examined and the income accruing from same accounted for.

All disbursements are supported by receipts in proper form and the cash has been verified and found correct.

BURTON S. FLAGG
CHARLES U. BELL

January 31, 1922

Finance Committee

REPORT OF THE LIBRARIAN

JANUARY 11, 1922.

To the Trustees of the Memorial Hall Library:

GENTLEMEN:

I herewith submit the report of the library for the twelve months ending December 31, 1921.

During 1920, which was a most successful year in the history of the library, and which in itself showed a big increase in use, the circulation of books was 44,398. During the twelve months just ended, the people of Andover have borrowed for home use the large number of 51,113 volumes, an increase over 1920 of 6715 books. Considering that the town population is but 8268, this use is extraordinary and forms a remarkable record. It shows what a vital part of the community life the Memorial Hall Library has become.

During the busiest months of the year, it has been necessary to have extra assistance, in order to leave the librarian free to answer questions and to attend to people who come for help in looking up topics. The satisfaction of the public with this arrangement is evident. They no longer feel obliged to preface a request with an apology for interrupting an obviously busy person. It is also a satisfaction to the librarian to be at liberty to leave the loan-desk, to be able to give full attention to reference work, and not to be obliged to cram into each moment more than could possibly be done. It is to this wise arrangement of the Trustees in affording the librarian more assistance that much of the increased use of the library can be attributed.

Though the present circulation of books is large, there may still be people who do not realize how free from red tape is the library administration nor how liberal its rules. Any child of ten may have a card—if we had a children's room with space for both children and books, a card would be given to any child

capable of writing his name. For children under fourteen, we ask for the signature of both parent and teacher. Having complied with this slight formality, the child is at liberty to take one book at a time and to exchange it at will. It is quite a custom in Andover for a child to celebrate his tenth birthday by obtaining a library card, and on several occasions, the necessary blank has been placed among the birthday gifts. All children over fourteen may borrow two books at a time, provided that only one is a story. Grown people may take as many books as they wish, but only one may be a seven-day book. With the exception of these one-week books, any book may be renewed, even indefinitely, if it has not been asked for by others.

There has been little improvement in the cost of books. They are yet extremely expensive, and the library is trying the experiment of buying fiction and juveniles in reinforced bindings, thus increasing the durability of the books and prolonging the time of use before being rebound. Fortunately, it has proved easier this past year to obtain the books needed by different study clubs, and we have not experienced the trying delays and disappointments which were our fate during 1920. This has been a source of satisfaction to both the librarian and the club members. Every effort is made to obtain books wanted, which are not on our shelves, and we are indebted to the Boston Public Library and to the Haverhill Public Library for loans.

Among the gifts of 1921 are two which should receive especial mention; one from the estate of Mrs. Abbie M. Smart, who left to the library about fifty books, among them handsomely bound sets of Scott and Dickens. By the will of Charlotte Helen Abbott, the library received all her books. Among them was a valuable genealogical dictionary, and several genealogies, which are a distinct asset to our collection. It is pleasant to know that in her will, Miss Abbott defined this bequest as an appreciation of the unfailing courtesy and kindness shown her during many years by the Trustees and the library staff.

The library has also received a gift of \$100 through the will of Ellen Cabot of Brookline. There are minor gifts of books and money from summer visitors who take this way of expressing thanks for the library privileges granted to them. It is not

uncommon for these visitors to express regret at leaving a town where they have found an unusual generosity extended by the local library. We also appreciate the thoughtful kindness of one gentleman who has twice taken the trouble to purchase in town on the day of its issue and bring to us, a book of especial interest and importance. Another constant user presents at intervals a sum of money to be spent in the purchase of interesting novels, and yet another always remembers the book fund with a five-dollar bill at Christmas.

The Smith and Dove Company are presenting to the reading-room a subscription to the "Textile World", which will be as much appreciated by the workers in that line as is the "India Rubber World," provided by the Tyer Rubber Company. Through the kindness of the Massachusetts Library Commission, the library has shared yet further in the distribution of books no longer needed in army camps, and we obtained a number of valuable works on automobiles, chemistry, business manuals of several types, and a set on foreign trade, all of which have interested the young men of the town.

The use of the library by the schools has been extensive. Both the town and parochial schools appeal to it constantly for help and for books to be used in classrooms. We have loaned books to both Phillips and Abbot Academies. The usual set of lectures on the use of reference books was given to the sophomore class in the Punchard High School with uncommonly satisfactory results. It is always a revelation to these young people to find what a storehouse of knowledge the library is, and also a surprise to know the pleasure of using books intelligently.

The November ice-storm robbed us of our magnificent horse-chestnut which had been the pride and beauty of Andover Square for many years. It is a loss which can never be replaced. With the many laments over its going came one comment which affords food for thought. One person remarked that now the tree was gone, the library stood fully revealed, and she, for one, realized for the first time in what ridiculously small quarters so important a part of Andover's educational system was trying to serve the community. Small as it may seem outside, it is even smaller inside. Crowded shelves and narrow aisles cramp

its use. The children, who ought to have a room of their own, with the space and freedom and attention which are their due, are confined to one corner of the reading-room, where they often sit on the floor for lack of seats.

The record of the year just past, with adequate help in busy hours, is an indication of what might be done under still better conditions. If the central library could have more space for books, could have a room for the children, the work would expand amazingly. The branch at Ballardvale has been a success since its beginning; there is an ample field for a branch in Shaw-sheen Village, and there is an earnest desire on the part of the residents in that section that one should be started by the town.

The Memorial Hall Library is an essential part of the town life. It is doing good work with the schools and with the children under hampering conditions. Fortunately, there is a gleam of hope in that the young people who have used and appreciated the library during the past fifteen years, are growing into their heritage in the town affairs, and are showing a gratifying opinion that it is high time Andover's library had a better chance.

Respectfully submitted,

EDNA A. BROWN,

Librarian.

STATISTICS OF THE LIBRARY

Number of books issued for home use at the Memorial Hall	43583
Number of books issued at Ballardvale	7530
Total for the year of 1921	51113
Percentage of fiction circulated	70
Percentage of non-fiction circulated	30
Number of borrowers' cards in use	2624
Books added by purchase	601
Books added by gift	192
Total accessions	793
Books withdrawn, worn out, etc.	374
Total number of volumes in the library	25425
Volumes rebound	346
Volumes bound, periodicals, etc.	87

BALLARDVALE

Number of books issued for home use	7530
Number of cards in use	420
Books added by purchase	88
Books added by gift	25
Total accessions	113
Books now belonging to the branch	1708

Gifts of books and pamphlets are acknowledged from state and government departments, from other libraries, from the A. V. I. S.; the estate of Charlotte H. Abbott; the estate of Mrs. Abbie M. Smart, and from the following individuals:

C. K. Bancroft; Judge C. U. Bell; Miss E. F. Brown; M. W. Colquhoun; Mrs. James Craig; Austin Drew; J. H. Dye; Howard French; J. C. Graham; Mrs. E. R. Green; N. H. Hamblin; Rev. C. W. Henry; Miss Houlotte; Mrs. J. H. Kidder; Mrs. E. E. Mitchell; Mrs. George Ripley; G. B. Ripley; Rev. F. R. Shipman; Dr. Roger Tracy.

INFORMATION FOR USERS OF THE LIBRARY

The Memorial Hall Library is open every day except Sundays and legal holidays from 9 to 12.30 in the morning, and from 3 to 9 in the afternoon and evening.

Any resident of Andover over ten years of age may have a library card upon filling out an application blank. Children in grades below the Punchard School are required to have their applications endorsed by both parent and teacher.

All grown people are allowed to take any reasonable number of books, provided that only one is a seven-day book. The Punchard pupils are permitted to borrow two, one fiction and one non-fiction.

Books are issued for fourteen days, *the date upon which the book is due* being stamped plainly on the "date due" slip at the time of issue. A book kept overtime incurs a fine of two cents for every day overdue. A few of the books most in demand are issued for seven days only. All these are labeled upon the book pocket, "Seven day book." Books lost or damaged must be paid for.

Seven day books are not renewed or reserved for anyone. Other books may be renewed if no one else has asked for them, and if a work not fiction is especially desired for any serious purpose, notice of its return to the library will be sent on request.

The shelves of the whole library are open to all grown people. The books are arranged according to subjects, and it is often much more satisfactory to go to the shelves and examine the books than to depend upon the catalogue.

The only complete index of the contents of the library is the card catalogue. The printed catalogue of the books was issued many years ago, and is out-of-date, besides containing the names of many books which are no longer in the library. The new books are listed at intervals in the weekly paper, and cumulated in the yearly library report, but the only complete record is the card

catalogue. This catalogue is arranged alphabetically like a dictionary. To find whether any given book is in the library, look for it under the surname of the author, or under its title. The right-hand drawers of the case contain a second arrangement of cards where the books are entered according to the subjects of which they treat.

The new books purchased each month are placed for some weeks in a special case on the north side of the reading room, so that the most recent additions to the library may be found there. The library buys only a limited amount of new fiction, but it tries to fill the wants of the community in regard to other books desired. People are invited to suggest for purchase the titles of books they wish.

The library staff is always glad to answer questions or in any way to help visitors find what they want.

LIST OF PERIODICALS AND NEWSPAPERS TAKEN FOR THE READING ROOM

American monthly review of reviews

Atlantic monthly

Blackwood's magazine

Bookman

Book review digest

Catholic world

Century

Country gentleman

Christian Endeavor world (gift)

Country life in America

Cumulative book index

Etude

Forum

Garden magazine (gift)

Guide to nature (gift)

Harper's magazine

House beautiful (gift)

Independent and Weekly review.

India rubber world, (gift)
International studio (gift)
Ladies' home journal
Library journal
Life
Literary digest
Littell's living age
London weekly Times
Missionary review of the world
National geographic magazine
Nineteenth century
North American review
Open road
Outing
Outlook
Popular mechanics
Public libraries
Readers' guide to periodical literature
St. Nicholas
School arts magazine
Scientific American
Scribner's magazine
Survey
Textile world (gift)
Woman's Home Companion
World's work
Youth's companion
Andover Townsman
Boston Herald
Boston Transcript
Christian Science Monitor (gift)
Lawrence Telegram
New York Times

NEW BOOKS ADDED DURING 1921

State and government documents are not listed. Duplicates, replacements and books for the Ballardvale Branch are also omitted.

*(Books marked with a * are Gifts.)*

PERIODICALS

051 R32	American monthly review of reviews, v. 62, 63.
051 A881	Atlantic monthly, v. 126, 127.
052 B56j	Blackwood's magazine, v. 208.
051 B64	Bookman, v. 51, 52.
051 C33	Century, v. 100, 101.
051 F77	Forum, v. 63, 64, 65.
716 G16	Garden magazine, v. 30, 31, 32.
051 H23	Harper's magazine, v. 141, 142.
705 H81	House beautiful, v. 48.
051 I38	Independent, v. 102, 103, 104.
705 I61	International studio, v. 71, 72.
020.5 L61	Library journal, v. 45.
051 L71	Littell's living age, v. 306, 307, 308.
910.5 N21	National geographic magazine, v. 38, 39.
052 N62	Nineteenth century, v. 58.
051 N81	North American review, v. 212, 213.
051 O94	Outlook, v. 125, 126, 127.
621 P81	Popular mechanics, v. 34, 35.
020.5 P96	Public libraries, v. 25.
370.5 S35	School arts magazine, v. 20.
051 S147	St. Nicholas, v. 47, pt. 2.
605 S416	Scientific American, v. 123, 124.
051 S434	Scribner's magazine, v. 68, 69.
051 W89	World's work, v. 40, 41.

*Gifts

ETHICAL AND RELIGIOUS BOOKS

(Purchased chiefly from the Phillips Fund)

230 A13w	Abbott, Lyman. What Christianity means to me.
268 B38p	Beard, Frederica. Pictures in religious education.
177.7 B73	Brandt, Lillian. How much shall I give?
173 C1s	Cabot, E. L. Seven ages of childhood.
251 C11	Cadman, S. P. Ambassadors of God.
268 C71	*Colson, Elizabeth. First primary book in religion.
268 C79w	Cope, H. F. The week-day church school.
248 F78ms	Fosdick, H. E. Meaning of service.
220.9 G76	Grant, Elihu. Orient in Bible times.

- 232 G78 Graves, F. P. What did Jesus teach?
 261 G94 Guild, R. B. Community programs for cooperating churches.
 136 H25 Hartshorne, Hugh. Childhood and character.
 173 H29 Haviland, M. S. Character training in childhood.
 131 H86 Hudson, J. W. The truths we live by.
 172.4 I72 *Irwin, Will. The next war.
 131 J13 Jackson & Salisbury. Outwitting our nerves.
 232.9 K41j Kent & Jenks. Jesus' principles of living.
 150 M14 McDougall, William. Introduction to social psychology.
 268 M92 Munkres, Alberta. Primary method in the church school.
 131 M99 Myerson, Abraham. The nervous housewife.
 237 R15 Randall, J. H. New light on immortality,
 174 R39 Richards, Claude. Man of to-morrow.
 226.3 R54 Robertson, A. T. Studies in Mark's gospel.
 220.9 R63 Rogers, R. W. Great characters of the Old Testament.
 177 S79 Starrett, H. E. Charm of fine manners.
 231 S97 Swain, R. L. What and where is God?
 131 W16 Walsh, J. J. Religion and health.

GENERAL ECONOMICS

- 352 A82 *Ashley, R. L. The new civics.
 352 B38 *Beard, C. A. American citizenship.
 347 B58 Blakemore, A. W. Make your will.
 352 B72 Bradford, E. S. Commission government in American cities.
 331 B87 *Bullard, F. L. The public refuses to pay.
 374 C54 Clark, T. A. Discipline and the derelict.
 351.3 E94 *Ewart, J. A. Civil service manual. 3v.
 396 F47 Filene, Catherine. Careers for women.
 351.7 F58 Fitzpatrick, E. A. Budget making in a democracy.
 332.7 H12 Hagerty, J. E. Mercantile credit.
 379 H194 Hanifan, L. J. The community centre.
 351.3 H35 Hecht, Solomon. Postoffice department examination instruction.
 364 H85 Hoyt, F. C. Quicksands of youth.
 368 H871 *Huebner, S. S. Life insurance.
 368 H87p *Huebner, S. S. Property insurance.
 351.3 L57 Leupp, F. E. How to prepare for a civil service examination.
 321 L95 Lowell, A. L. Greater European governments.
 304 M14 McDougall, William. Is America safe for democracy?
 374 R25d Reely, M. K. comp. Selected articles on disarmament.
 380 W39 *Webster, W. C. General history of commerce.

BOOKS ON EDUCATION

- 428 B29 Bascom, Leila. Elementary lessons in English idiom.
 370.1 H78 Horne, H. H. Teacher as artist.
 808 P37 Pence, R. W. Manual of the mechanics of writing.
 460 T27 Terry, T. P. Short-cut to Spanish.
 150 T67 Trabue & Stockbridge. Measure your mind.
 371 T85 Turner, E. A. Essentials of good teaching.

BOOKS ON SCIENCE

- 540 B28 *Bartley, E. H. Text-book of medical and pharmaceutical chemistry.
 667 F29 Fay, I. W. Chemistry of the coal-tar dyes.
 523.8 O43 Olcott, W. T. Field-book of the stars.
 530 S75 Spinney, L. B. Text-book of physics.
 540.3 T39 Thorpe, Sir Edward. Dictionary of applied chemistry
 2 v.

FARM AND HOME MANAGEMENT

- 640 A14 Abel, M. H. Successful family life on a moderate income.
 636 C94 *Curtis, R. S. Fundamentals of live-stock judging.
 636.7 G25 Gay, C. W. Productive horse husbandry.
 636 H23 Harper, M. W. Manual of farm animals.
 613 H34 Head, Joseph. Everyday mouth hygiene.
 636.5 L19 Lamon & Kinghorne. Practical poultry production.
 636.5 L58 Lewis, H. R. Productive poultry husbandry.
 645 L96 Luckiesh, Marion. Lighting the home.
 641 M13 McCollum & Simmonds. American home diet.
 646 M36 Martin, G. A. Make your own hats.
 636 S73 Spaulding, R. H. Your dog and your cat.
 636.9 W27 Washburn, F. L. The rabbit book.

BUSINESS HANDBOOKS

- 396 A21 Adams, E. K. Women professional workers.
 658 B27 Barrett, H. J. Modern methods in the office.
 659 B77 Brisco, N. A. Fundamentals of salesmanship.
 658 D29 *Davis & Lingham. Business English.
 174 D34 Dean, E. O. Opportunities out of doors.
 347 H87 *Huffcut, E. W. Elements of business law.
 174 K55 Kilduff, E. J. How to choose and get a better job.
 658 L58 Lewis, E. S. Getting the most out of business
 659 M45t Maxwell, William. Training of a salesman.
 380 P88 *Pratt, E. E. Course in foreign trade. 11v.
 658 S44 *Scovell, C. H. Cost accounting and burden application.
 070 S74 *Spencer, M. L. News writing.
 659 W58 Whitehead, Harold. Principles of salesmanship.

MECHANICAL AND USEFUL ARTS

- 671 B78 Broemel, L. Sheet metal worker's manual.
 654 B85 Bucher, E. E. Wireless experimenter's manual.
 526 D29 *Davis R. E. Manual of surveying.
 744 H55 *Hills, R. W. Machine drawing.
 621.4 H61 *Hirshfeld & Ulbricht. Gas power.
 694 H66 *Hodgson, F. T. Practical treatise on the steel square. 2v.
 792 H78 *Horstmann & Tousley. Motion picture operation.
 621.1 K96 Kuss, R. H. Steam boilers.
 666 M12 *Macbeth-Evans Glass Co. Fifty years of glass-making.
 629.1 M31b Manly, H. P. Automobile battery care.

- 677 N99 Nystrom, E. H. Textiles.
 629.1 P14mt Pagé, V. W. Modern motor truck.
 629.1 P14t Pagé, V. W. Model T Ford car.
 678 P31c Pearson, H. C. Crude rubber and compounding ingredients.
 678 P31r Pearson, H. C. Rubber machinery.
 694 T66 Townsend, Gilbert. Carpentry & joinery.
 678 T81 Tufford, H. H. Tires and vulcanizing.
 678 W58 Whitby, G. S. Plantation rubber and the testing of rubber.
 667 W61 Whittaker, C. M. Application of coal-tar dye stuffs.
 677 W88 Woolman & McGowan. Textiles.

FINE ARTS

- 749 C23 Carrick, A. V. Collector's luck.
 793 C76 Conger, M. L. Folk-story plays for children.
 791 C76 Conklin, George. Ways of the circus.
 746 C81 Corticelli Silk Mills. Lessons in crochet.
 745 C85b Crane, Walter. Bases of design.
 745 C85 1 Crane, Walter. Line and form.
 794 D79 Draper, G. O. School, church, and home games.
 793 F41 Ferris, Helen. Producing amateur entertainments.
 738 H32 Hayden, Arthur. Chats on old Sheffield plate.
 796 H56 Hilton, H. H. Modern golf.
 793 H86 Hubbard, Eleanore. Little American history plays.
 796 J49 Jessop, Elon. Motor camping book.
 716 K63 Kirby, A. M. Daffodils, narcissus, and how to grow them.
 793 K74 Knickerbocker, E. V. Plays for classroom interpretation.
 740 L97 Lutz, E. G. Drawing made easy.
 792 M17 McIsaac, F. G. Tony Sarg marionette book.
 793 M85 Moses, J. M. ed. Treasury of plays for children.
 715 P34 Peets, Elbert. Practical tree repair.
 796 R48 Ripley, G. S. Games for boys.
 740 S24 Sargent & Miller. How children learn to draw.
 796 V19 Vaile, P. A. The new golf.
 796 W21 Wardlaw & Morrison. Basket-ball.
 793 W38g Wolcott, T. H. Book of games and parties.

LITERATURE, ESSAYS AND POETRY

- 372.2 B15t Bailey, C. S. Tell me another story.
 822.08 B17h Baker, G. P. ed. Harvard plays; the 47 workshop. 2v.
 822.08 B17 Baker, G. P. ed. Modern American plays.
 822 B17p Baker, G. P. The Pilgrim spirit, a pageant.
 822 B27k Barrie, J. M. A kiss for Cinderella.
 824 B43h *Benson, A. C. House of quiet.
 824 B45s Bergengren, Ralph. Seven ages of man.
 843 B64c *Bordeaux, Henry. La chair et l'esprit.
 824 B796 *Broun, Hayward. Seeing things at night.
 843 B86 Buffum, D. L. ed. French short stories.
 824 C42u Chesterton, G. K. Uses of diversity.

- 808 C55 Clark, T. A. When you write a letter.
 808.9 D39 Deming & Bemis, comp. Pieces for every day the schools celebrate.
- 016.8 G76 Graham, Bessie, comp. The bookman's manual.
 824 G764 Grandgent, C. H. Old and new.
 372 H23 Harper, Wilhelmina, comp. Story-hour favorites.
 808.9 K67 *Kleiser, Grenville. Humorous hits.
 827 L46a *Leacock, Stephen. Arcadian adventures with the idle rich.
- 824 M81m *Morley, Christopher. Mince-pie.
 824 M81p *Morley, Christopher. Pipefuls.
 822.33 M86a Moulton, R. G. Shakespeare as a dramatic artist.
 822.33 M86t Moulton, R. G. Shakespeare as a dramatic thinker.
 824 M48 *Newton, A. E. A magnificent farce, etc.
 821 N87e *Noyes, Alfred. The elfin artist, etc.
 372 O35 O'Grady & Throop, comp. Teacher's story-teller's book.
 891 O54r *Omar Khayyam. The rose garden.
 891 O54t *Omar Khayyam. Rubaiyat, with Persian text.
 824 R29p Repplier, Agnes. Points of friction.
 824 S23c Santayana, George. Character and opinion in the United States.
- 590 S42 Scoville, Samuel. Everyday adventures.
 822.08 S53 Shea & Loving, eds. Fifty contemporary one-act plays.
 808.9 S61 *Sindelar, J. C. ed. Lincoln Day entertainments.
 820.9 T85 Turner & Sutherland. The development of Australian literature.
- 808.9 T97 Tyler, A. C. comp. Twenty-four unusual stories.
 824 V28c Van Dyke, Henry. Camp-fires and guide-posts.
 821.08 W17 Walters, L. D. O. comp. Anthology of recent poetry.
 808.9 W67 *Williams, L. M. Up-to-the-minute monologues.
 821.08 W63 Widdemer, Margaret. The haunted hour.

DESCRIPTION AND TRAVEL

- 917.12 B85 Buchanan, Angus. Wild life in Canada.
 919.4 B87 Buley, E. C. Australian life in town and country.
 917.44 B76 *Brigham, A. P. Cape Cod and the old colony.
 910.4 B93 Burns, W. N. Year with a whaler.
 917.5 C15 Campbell, J. C. The southern highlander and his home.
 917.94 C16 Canfield, C. D. ed. Diary of a forty-niner.
 915.69 C42 Chesterton, G. K. The new Jerusalem.
 914.5 C54 *Clark, F. E. Our fellow Italian citizens.
 917.44 E26 Edwards, Agnes. The old coast road from Boston to Plymouth.
- 917.29 F84 Franck, H. A. Roaming through the West Indies.
 919.6 F87 Freeman, L. R. In the tracks of the trades.
 917.3 G29 George, W. L. Hail Columbia!
 917.3 G35 Gibbs, Philip. People of destiny.
 914.2 H87 Huish, M. B. American pilgrim's way in England.
 916.7 M33 *Marcosson, I. F. An African adventure.
 916.2 M33 *Margoliouth, D. S. Cairo, Jerusalem and Damascus.
 914.41 M85 Mosher, A. M. Spell of Brittany.

- 910.4 P16 Paine, R. D. Lost ships and lonely seas.
 914.2 P23 Parks, Leighton. English ways and byways.
 917.3 R34t Rhodes, Harrison. American towns and people.
 917.41 S98 Sylvester, H. M. Maine pioneer settlements. 5v.
 919.4 T21 Taylor, Griffith. Australia.
 917.47 T66 Towns, C. H. Loafing down Long Island.
 917.44 W24 Warner, F. L. Pilgrim trails.
 919.4 W88 Woollcombe, H. S. Beneath the southern cross.

BIOGRAPHY

- 92 A366 Aldrich, L. W. Crowding memories.
 92 A843 Asquith, Margot. Autobiography.
 92 B441 Benson, E. F. Our family affairs.
 92 B634 Bok, Edward. Americanization of Edward Bok.
 92 R566b Burgess, W. H. John Robinson, the pastor of the Pilgrims.
 92 C213 Carnegie, Andrew. Autobiography.
 92 S513c Chamberlain, N. H. Samuel Sewall and the world he lived in.
 92 F947 Clark, J. S. Life and letters of John Fiske. 2v.
 92 L633d Drinkwater, John. Lincoln the world emancipator.
 92 N16lf *Fisher, Herbert. Napoleon.
 92 E87f *Fleury, Maurice. Memoirs of the Empress Eugénie. 2v.
 92 T585g Gorky, Maxim. Reminiscences of Tolstoi.
 92 J237 James, William. Letters. 2v.
 92 H769 Kellogg, Vernon. Herbert Hoover.
 92 L923k *Knox, W. F. The court of a saint. (Louis IX).
 92 C723 Menzies, Lucy. St. Columba of Iona.
 92 R324m Moses, Belle. Paul Revere.
 92 M856 Moton, R. R. Finding a way out.
 92 P195 Pannunzio, C. M. Soul of an immigrant.
 92 R674ro Robinson, C. R. My brother, Theodore Roosevelt.
 920 S91 Strachey, Lytton. Eminent Victorians.
 92 V667s Strachey, Lytton. Queen Victoria.
 92 W699t *Tumulty, J. P. Woodrow Wilson as I know him.
 920 W67w Williams, B. C. Our short story writers.

HISTORY

- 974 A21 Adams, J. T. Founding of New England.
 940 A82 Ashley, R. L. Early European civilization.
 913.42 A92 Ault, Norman. Life in ancient Britain.
 940.91 B43 *Benwell, H. A. History of the Yankee Division.
 930 B74 Breasted, James. Ancient times.
 974 B76 Bridgman, H. A. New England in the life of the world.
 942 C88 Cross, A. L. History of New England and Greater Britain.
 944 D29 Davis, W. S. History of France.
 937 D58r Dill, Samuel. Roman society in the last century of the western empire.
 940.91 D58 *Dillon, E. J. Inside story of the peace conference.
 942 D63o Ditchfield, P. H. Old village life.
 973 F55 Fite, E. D. History of the United States.

- 940.91 F71 Folks, Homer. Human costs of the war.
 973 F76 Forman, S. E. Advanced American history.
 973 H31 Haworth, P. L. The United States in our own time.
 940.91 H326 Hayes, C. J. H. Brief history of the Great War.
 940.91 H81 *House, E. M. ed. What really happened at Paris.
 974.46 H83 Howe, M. A. deW. Boston Common.
 940.91 L29 *Lansing, Robert. The peace negotiations.
 923.2 M67 Mirrors of Downing street.
 974.4 M82 Morison, S. E. Maritime history of Massachusetts.
 973 M98 Muzzey, D. S. An American history.
 940 R56r Robinson, J. H. ed. Readings in European history. 2v.
 940.91 T17 *Tardieu, André. The truth about the treaty.
 940.91 T21 *Taylor, E. G. New England in France, 1917-1919.
 940 W39 Webster, Hutton. Historical source book.
 900 W46 Wells, H. G. Outline of history.
 904 W45 Wells, H. G. Salvaging of civilization.
 973 W52 West, W. M. ed. Source book in American history.

FICTION

- | | |
|---------------------------|-----------------------------|
| Ashford, Daisy. | Her book. |
| Bailey, Temple. | The trumpeter swan. |
| Banning, Margaret. | Half loaves. |
| Bassett, S. W. | Flood tide. |
| Bindloss, Harold. | The intriguers. |
| Bindloss, Harold. | Thurston of Orchard Valley. |
| Bindloss, Harold. | Vane of the timberlands. |
| Bindloss, Harold. | The wilderness mine. |
| Bosher, K. L. | Kitty Canary. |
| Bottom, Phyllis. | The crystal heart. |
| Brown, Alice. | Home-spun and gold. |
| Brown, E. A. | Journey's end. |
| Brownell, A. M. | The thankful Spicers. |
| Bryant, Marguerite. | A courageous marriage. |
| Buckrose, Mrs. J. E. | Young hearts. |
| Chamberlain, G. A. | *Through stained glass. |
| Comstock, H. T. | Shield of silence. |
| Connolly, J. B. | *The trawler. |
| Cooper, H. St. J. | Sunny Ducrow. |
| Crabb, Arthur | Ghosts. |
| Curwood, J. C. | The flaming forest. |
| Curwood, J. C. | Valley of silent men. |
| Dawson, Coningsby. | Kingdom round the corner. |
| Day, Holman. | When Egypt went broke. |
| Deland, Margaret | *Promises of Alice. |
| Douglas, O. E. | Penny plain. |
| Farnol, Jeffery. | *Black Bartlemy's treasure. |
| Favre de Coulevain, Mlle. | *Wonderful romance. |
| Fenger, F. A. | The golden parrot. |
| Fisher, D. C. | The brimming cup. |
| Fletcher, J. S. | The Chestermarck instinct. |
| Foot, J. T. | Dumb-bell of Brookfield. |

Fox, John, Jr.	Erskine Dale, pioneer.
Gatlin, Dana.	Missy.
Gillmore, I. H.	Out of the air.
Grey, Zane.	Desert of wheat.
Grey, Zane.	*The last trail.
Grey, Zane.	Mysterious rider.
Grimshaw, Beatrice.	The terrible island.
Haggard, H. R.	The ancient Allan. -
Hannay, J. O.	Adventurers of the night.
Hannay, J. O.	Our casualty.
Hawes, C. B.	The great quest.
Hawes, C. B.	The mutineers.
Hawkins, A. H.	Lucinda.
Hay, Ian.	The willing horse.
Hay, James.	The Melwood mystery.
Hbrkova, S. B. tr.	*Czechoslovak stories.
Henry, O.	*Options.
Holding, Elisabeth.	Invincible Minnie.
Hutchinson, A. S. M.	If winter comes.
Kelland, C. B.	Youth challenges.
King, Basil.	The empty sack.
Lee, Jeanette.	The other Susan.
Lewis, Sinclair.	Free air.
Lincoln, J. C.	Galusha the magnificent.
Livingston, F. B.	The custard cup.
Locke, W. J.	The mountebank.
Lutz, G. L. H.	Cloudy jewel.
Lutz, G. L. H.	The tryst.
Macauley, Rose.	Potterism.
McCutcheon, G. B.	Quill's window.
McFarland, Raymond.	Sons of the sea.
McFee, William.	Captain Macedoine's daughter.
MacGrath, Harold.	Pagan madonna.
Mackenzie, Compton.	Rich relatives.
Mantle, Beatrice.	In the house of another.
Marshall, Archibald.	The hall and the grange.
Maxwell, W. B.	*In cotton wool.
Miller, A. D.	Manslaughter.
Montgomery, L. M.	Rilla of Ingleside.
Morley, Christopher.	Kathleen.
Munro, Neil.	*Bud.
Mulder, Arnold.	The sand doctor.
Mulford, C. E.	Johnny Nelson.
Niven, Frederick.	Tale that is told.
Onions, Oliver.	Case in camera.
Onions, Mrs. Oliver.	Sweet stranger.
Ostrander, Isabel.	*Twenty-six clues.
Overton, Grant.	World without end.
Poole, Ernest.	*Blind.
Putnam, N. W.	It pays to smile.
Reynolds, Mrs. Baillie.	Also ran.
Rice, A. H.	Quin.

Richards, C. E.	A tenderfoot bride.
Rideout, H. M.	Fernseed.
Rinehart, M. R.	Poor wise man.
Rinehart, M. R.	More Tish.
Rinehart, M. R.	*Sight unseen, the Confession.
Rohmer, Sax.	*Green eyes of Bast.
Sidgwick, Ethel.	Madam.
Sime, J. G.	Our little life.
Sinclair, B. W.	Poor man's rock.
Singmaster, Elsie.	Ellen Levis.
Smith, H. L.	Agatha's aunt.
Snaith, J. C.	The adventurous lady.
Snaith, J. C.	Council of seven.
Somerville & Ross.	Some experiences of an Irish R. M.
Somerville & Ross.	Further experiences of an Irish R. M.
Stannard, Mrs. Arthur.	The truth-tellers.
Sterrett, F. R.	Nancy goes to town.
Tarkington, Booth.	Alice Adams.
Walpole, Hugh.	The captives.
Walpole, Hugh.	The young enchanted.
Watts, M. S.	The noon-mark.
Wharton, Edith.	Age of innocence.
White, S. E.	Claim jumpers.
White, S. E.	Rose dawn.
Williams, Valentine.	*Okewood of the secret service.
Williams, W. W.	Goshen street.
Willsie, Honoré.	The enchanted canyon.
Wilson, H. L.	The wrong twin.

CHILDREN'S BOOKS—NON-FICTION

808 B15m	Bailey, C. S. Merry tales.
92 L633ba	Baldwin, James. Abraham Lincoln.
656 B19	Baldwin & Livengood. Sailing the seas.
793 B26	Barnum, M. D. Harper's book of little plays.
973 B38h	Beard & Bagley. History of the American people.
918 B67	Bowman, Isaiah. South America.
292 B85	Buckley, E. F. Children of the dawn.
940.91 B91	Burke, Kathleen. Little heroes of France.
973 C64m	Coe, F. E. Makers of the nation.
914.15 C71	Colum, Padraic. Boy in Eirinn.
656 C88	Crump, Irving. Boys' book of railroads.
914.97 D28	Davies, E. C. Boy in Serbia.
973 D54	Dickson, M. S. American history.
398.4 D65	Dodge, Louis. Everychild.
973 E93	Evans, L. B. America first.
920 F22m	Faris, J. T. Makers of our history.
808 F94	Fryer, J. E. Stories of everyday friends.
352 F94h	Fryer, J. E. Stories of everyday heroes.
352 F94w	Fryer, J. E. Stories of everyday wonders.
917.3 F95	Fultz, F. M. Out-of-door studies in geography. 2v.
796 G44c	*Girl Scouts. Campward ho!
973 G65c	Gordy, W. F. Colonial days.

973 G65sl
940.5 Hll
938 Hll
937 Hll
940.1 Hll
550 H31

920.7 H78
540 J42
910 J61
571 L26
973.2 M15
808.9 M22
942 M34
793 N87
598.2 P27
973.2 P92
793 R37

92 W274ri
920.7 S64
917.8 W56
797 Y27

Gordy, W. F. Stories of later American history.
Haaren & Poland. Famous men of modern times.
Haaren & Poland. Famous men of Greece.
Haaren & Poland. Famous men of Rome.
Haaren & Poland. Famous men of the middle ages.
Hawksworth, Hallam. Strange adventures of a pebble.
Horton, Edith. Group of famous women.
Jenks, Tudor. Chemistry for young people.
Johonnot, James. Geographical reader.
Langford, George. Pic the weapon-maker.
MacElroy, M. H. Work and play in colonial days.
Macleod, Mary. Book of ballad stories.
Marks, Jeannette. Children in the woods stories.
Noyes & Ray. Little plays.
Patteson, S. L. How to have bird neighbors.
Prescott, D. R. Day in a colonial home.
Rich, G. E. When Mother lets us make paper box furniture.
Rideing, W. H. George Washington.
Smith, E. S. ed. Heroines of history and legend.
Wheeler, F. Rolt. Book of cowboys.
Yates, R. F. Boy's book of model boats.

STORIES FOR CHILDREN

Adams, Katherine.
Ames, J. B.
Ashmun, Margaret.
Bassett, S. W.
Bassett, S. W.
Brown, A. F.
Brown, E. A.
Dyer, W. A.
Gardner, E. W.
Gilchrist, B. B.
Gray, Joslyn.
Heyliger, William.
Holland, R. S.
Irwin, I. H.
Judson, C. I.
Lisle, Clifton.
Lofting, Hugh.
Meader, S. W.
Meigs, Cornelia
Morris, Cora, comp.
Newberry, Perry.
Perkins, L. F.
Phillips, E. C.
Price, E. B.
Schultz, J. W.
Turner, Nancy.
Wallace, Dillon.
Wheeler, F. Rolt.

Midsummer.
Torrance from Texas.
Isabel Carleton at home.
Paul and the printing press.
Steve and the steam engine.
Round Robin.
The silver bear.
Sons of liberty.
Dena.
Kit, Pat and a few boys.
Bouncing Bet.
High Benton-worker.
Blackbeard's island
Maida's little house.
Camp at Gravel Point.
Diamond rock.
Story of Dr. Dolittle.
The black buccaneer.
The windy hill.
Stories always new.
Castaway island.
The Puritan twins.
Black-eyed Susan.
Happy venture.
In the great Apache forest.
Zodiac town.
Ragged inlet guards.
Boy with the U. S. secret service.

REPORT OF CUSTODIAN JOHN CORNELL ART GALLERY

To the Trustees of the Memorial Hall Library.

GENTLEMEN: I herewith submit the report of the gallery for the twelve months ended December 31, 1921.

The gallery was opened the first of May. At the October meeting of the trustees it was voted that the gallery should be opened Saturday afternoons during the winter months.

The attendance for the year was 239. Of this number 81 were adults, and 158 children,—an increase over that of 1920, when the record stood 63 adults and 119 children.

The interest of the children has been about equally divided between the pictures and the stereographs. If views of the latter could be obtained showing birds in color they would be of much value to the children. Possibly some one in town may have just such views and would be glad to donate them to the gallery.

The addition of a screen has been a useful feature. Through this medium it has been possible to exhibit a variety of pictures, including choice bits of architecture, picturesque scenes in and near France; also reproductions of the work of famous English artists, such as Reynolds, Gainsborough, and Romney.

A most welcome gift of a set of world-renowned cathedrals, eight in number, all photogravures, and most of them large, has recently been received from Mr. Virgil G. Harrington. These beautiful reproductions will be a source of pleasure to many visitors during the coming years.

Respectfully submitted,

ABBIE S. DAVIS

Custodian

TOWN OF ANDOVER

TWENTY-FIRST ANNUAL
REPORT

OF THE

BOARD OF PUBLIC WORKS

EMBRACING THE THIRTY-SECOND ANNUAL REPORT OF
WATER COMMISSIONERS AND TWENTY-
FOURTH ANNUAL REPORT OF
SEWER COMMISSIONERS

FOR THE YEAR ENDING

DECEMBER 31, 1921

ANDOVER, MASS.
THE ANDOVER PRESS
1922

WATER COMMISSIONERS

1889—1899

*JOHN H. FLINT

*JAMES P. BUTTERFIELD
*FELIX G. HAYNES

SEWER COMMISSIONERS

1893—1894

*WM. S. JENKINS
*JOHN L. SMITH
CHARLES E. ABBOTT

1894—1899

*WM. S. JENKINS
*JOHN L. SMITH
*JOHN E. SMITH

BOARD OF PUBLIC WORKS

1899—1902

*JOHN H. FLINT
*WM. S. JENKINS
*JOHN L. SMITH
*JAMES P. BUTTERFIELD
*FELIX G. HAYNES

1903—1906

*JOHN L. SMITH
*FELIX G. HAYNES
*JOHN W. BELL
*LEWIS T. HARDY
JAMES C. SAWYER

1906—1907

*FELIX G. HAYNES
*JOHN W. BELL, Treas.
JAMES C. SAWYER, Sec'y
*LEWIS T. HARDY
*HARRY M. EAMES

1907—1908

*FELIX G. HAYNES
*JOHN W. BELL, Treas.
JAMES C. SAWYER, Sec'y
*LEWIS T. HARDY
ANDREW McTERNEN

1908—1912

*LEWIS T. HARDY
*JOHN W. BELL, Treas.
JAMES C. SAWYER, Sec'y
ANDREW McTERNEN
WILLIS B. HODGKINS

1913—1914

*LEWIS T. HARDY ('16)
BARNETT ROGERS ('16)
ANDREW McTERNEN ('15)
THOS. E. RHODES, Sec'y ('14)
WILLIS B. HODGKINS, Treas. ('15)

1914—1916

THOS. E. RHODES ('19)
BARNETT ROGERS ('16)
*LEWIS T. HARDY ('16)
ANDREW McTERNEN, Sec'y ('18)
WILLIS B. HODGKINS, Treas. ('18)

1916—1917

BARNETT ROGERS ('19)
THOS. E. RHODES ('17)
ANDREW McTERNEN ('18)
CHAS. B. BALDWIN, Sec'y ('19)
WILLIS B. HODGKINS, Treas. ('18)

1917—1918

BARNETT ROGERS ('19)
THOS. E. RHODES ('20)
ANDREW McTERNEN ('18)
CHAS. B. BALDWIN, Sec'y ('19)
WILLIS B. HODGKINS, Treas. ('18)

1918—1919

BARNETT ROGERS ('22)
ANDREW McTERNEN ('21)
PHILIP L. HARDY ('21)
CHAS. B. BALDWIN, Sec'y ('22)
THOS. E. RHODES, Treas. ('20)

1919—1920—1921

BARNETT ROGERS ('22)
WILLIAM D. McINTYRE ('21)
THOS. E. RHODES, Treas. ('23)

ARTHUR T. BOUTWELL ('22)
PHILIP L. HARDY Sec'y ('21)

SUPERINTENDENT

FRANK L. COLE

* Deceased.

REPORT OF BOARD OF PUBLIC WORKS

To the Citizens of the Town of Andover, Mass.

Your Board of Public Works herewith submits its annual report for the year ending December 31, 1921.

This is the ninth annual report of the Board under its reorganization and includes the thirty-third annual report of the water system, the twenty-fifth of the sewer system and the ninth of the Highway and Park Departments, since they have been under the jurisdiction of the Board of Public Works.

ORGANIZATION

Mr. William McIntyre and Philip L. Hardy were reelected to the Board for a term of three years.

The Board met on March 14, 1921 and organized as follows:

Chairman, Barnett Rogers.

Treasurer, Thomas E. Rhodes.

Secretary, Philip L. Hardy.

Mr. Frank L. Cole was appointed as Superintendent and George Dick as his assistant.

WATER DEPARTMENT

During the past year there was one extension made to the water system which the Town voted to install at the last annual Town meeting. This extension was made on Ballardvale Road, a 6" pipe being laid a distance of 927 feet on which there is but one water consumer. There have been some extensions made in Shawsheen Village but the cost of these has been borne by the owners of the property.

The appropriations for maintenance and construction were spent in the usual manner, that is the former was used for running

expenses of the system, repairs, etc., and the latter appropriation was used for the installation of new service pipes and meters.

In view of the fact that the Board is recommending an issue of bonds, which if accepted at the Town meeting will incur an expense to the Town this year, the amount of which can not be determined at this time, as it depends upon the time at which the work is carried out and the cost of same, which two factors will determine the interest charges which will be payable the ensuing year; and also in consideration of the extensive work being carried on in Shawsheen Village relative to the water system, the expense and income of which is difficult to estimate, the Board thought it wise to defer putting into operation the system of accounting recommended last year and is accordingly making its recommendations in the usual way and hereby recommend an appropriation of \$20,000.00 for maintenance and the sum of \$2000.00 for new construction for the use of the water department for 1922.

The Board also recommends that the Town issue bonds to the amount of \$40,000.00 for use of the water department.

The reason we ask for these bonds is that it is imperative that the 6" main from the West Andover Church to High Street be replaced with a much larger main. At present this 6" main is entirely inadequate and under certain conditions a very serious situation might result. The cost of this work is estimated at approximately \$35,000.00. The remaining \$5,000.00 is to be used to make the necessary changes in the water system, such as the installation of an electrical unit at the Haggetts Pond Station which we feel would be necessary in the very near future.

THE WATER BONDED DEBT

The bonded debt of the water system January 1, 1921 was \$115,000.00. During the past year there has been paid from the Town Treasury \$8,000.00, leaving a bonded debt on this system January 1, 1922 of \$107,000.00.

Of this indebtedness \$40,000.00 is redeemable by the sinking fund which on January 1, 1922 amounted to \$35,333.23.

The sum of \$750.00 should be appropriated for the sinking fund for the year 1922.

SEWER DEPARTMENT

At the last annual Town meeting it was voted to install a sewer main on Poor and Main Streets, and also on Haverhill Street, and this work has been completed. This work on Poor and Main Streets was done by the Board and the Haverhill St. job was let out by contract for the sum of \$9186.08 plus \$8.60 a yard for ledgework.

On account of the large amount of ledgework, and the increased length of the Haverhill Street job, it will be necessary to ask for an appropriation of \$5748.08 to pay for the extra cost of this work. The total cost being \$14,493.87 and the amount appropriated was \$8750.00, leaving a balance of \$4.21.

The sewer on Lowell Street which the Town, at a special meeting voted to construct is about one third complete. Work was stopped on this job on account of weather conditions, but it will be completed as soon as the weather permits.

In compliance with a vote at the last Annual meeting, authorizing the Board to secure plans and estimates for the disposal of the town sewage, other than by filter beds, such plans and estimates have been received. The plan most practical and efficient is the one that takes the sewage direct to the Merrimac River. This plan has the endorsement of the Engineers of the State Board of Health and will cost approximately \$200,000.00. We recommend this plan.

Appropriation, March 1921	\$1000.00
Approved bill	850.00
	<hr/>
Balance	\$ 150.00

If this plan is carried out the present filter beds will be done away with and of course this land will become a considerable asset to the Town. If the plan is not adopted by the Town it will mean the expenditure of about \$100,000.00 to enlarge the present filter beds, upon which the State Board of Health will insist, as the present beds are much too small to care for the increasing sewage.

The Board recommends the usual appropriation of \$3000.00 for maintenance of the sewer Department for the ensuing year.

THE SEWER BONDED DEBT

The bonded debt of the sewer system January 1, 1921 was \$120,000.00. During the year 1921 \$7000.00 was paid from the Town Treasury on this indebtedness leaving the total indebtedness of the system on January 1, 1922, \$113,000.00.

Of this amount \$30,000.00 is redeemable by the sinking fund which on January 1, 1922 amounted to \$21,042.05.

The sum of \$1000.00 should be appropriated for the sinking fund for the year 1922.

HIGHWAY DEPARTMENT

During the past year we have built a considerable amount of cinder roads in the outlying parts of the Town as this method of caring for these roads seems to be very satisfactory.

There has been a Tarvia Road built on Summer Street from Elm to Pine and also on Andover Street from residence of Joseph Stanley to the school house hill in Ballardvale. A detailed account of the yardage and cost of these jobs will be found in the Superintendent's report.

The tarvia roads already built and which required blanketing were, as is customary, given a coat of tar and sand to maintain them in as good condition as possible.

Extensive repairs were found to be necessary on the Shawsheen Bridge in Ballardvale and also the Stevens Street Bridge at a cost of about \$3000.00.

For the ensuing year the Board recommends the appropriation of \$60,000.00 for use of Highway Department, \$30,000.00 of this for new construction and \$30,000.00 for maintenance.

The Main Street Highway from the square to Chapel Ave. is in very bad shape particularly on the west side. The large amount of traffic which this road is called upon to serve, demands that this be rebuilt of a more permanent type of construction than has been the case in the past. According to advice received by the Board it seems that if this work be undertaken immediately it can be done at a less cost than if deferred, and as the road is in very bad condition we recommend that the Town authorize the expenditure of \$100,000.00 to complete this work the ensuing year.

SNOW REMOVAL

The sum of \$1834.00 was spent last year for the removal of snow and the Board has included in its appropriation for Highway maintenance the sum of \$2,000.00 to care for this work the ensuing year.

SIDEWALKS

There have been several sidewalks constructed under the Betterment Act during the past year of which a detailed statement will be found in the Superintendent's report.

LOWELL STREET

The construction of Lowell Street was completed during the past year.

We now have a Tarvia road from Shawsheen Village to the Tewksbury line and it is our hope that the State will take this road over and maintain it as one of its state Highways. The total cost of this job since the work was started in 1915 until the completion of same last year, amounted to \$117,670.83. The Town bore only one-third of this expense, the remaining two-thirds being paid by the State and County in equal proportions. To give an idea of the increasing cost of carrying on work during the past few years, it is interesting to note the prices per yard of constructing this road since 1915. In 1915 the cost per yard amounted to \$1.07. In 1916 this jumped to \$1.36. In 1917, \$1.62; in 1918, \$2.24; in 1919, \$2.20; in 1920, \$3.10; and in 1921, \$3.28.

PARK DEPARTMENT

The sum of \$1200.00 is recommended for care of the Park for the ensuing year.

Signed,

BARNETT ROGERS
PHILIP L. HARDY
THOMAS E. RHODES
WILLIAM D. McINTYRE
ARTHUR T. BOUTWELL

REDEMPTION OF BONDS

	DR.	
To redeem Water Loan	No. 2 due 1922	\$10000.00
	No. 3 " 1923	10000.00
	No. 4 " 1925	15000.00
	No. 5 " 1928	5000.00

WATER SINKING FUND

	CR.	
Balance Jan. 1, 1921	\$33026.14	
Appropriation March 1921	750.00	
Interest on deposits	1557.09	
		\$35333.23

WATER LOAN DEPOSITS

Andover National Bank	\$24795.83	
Andover Savings Bank	10537.40	
		\$35333.23

	DR.	
To redeem Sewer Bonds Due 1928		\$30000.00

SEWER SINKING FUND

	CR.	
Balance Jan 1, 1921	\$19170.35	
Appropriation March 1921	1000.00	
Interest on deposits	871.70	
		\$21042.05
Balance Jan. 1, 1922		\$21042.05

SEWER LOAN DEPOSITS

Andover National Bank Book No. 2	\$21042.05
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Note: In addition to the above bonds we have \$67000.00
Serial Water Bonds and \$83000.00 Serial Sewer Bonds.

Examined, W. H. COLEMAN }
J. S. ROBERTSON } *Auditors*

THE WATER BONDED DEBT

The Bonded Debt of the Water System January 1, 1921 was \$115000.00.

During the year 1921 there has been paid out, out of the Town Treasury \$8000.00; leaving a bonded debt on this system January 1, 1922 of \$107000.00. Of this indebtedness \$40000.00 is redeemable by the Sinking Fund, which on January 1, 1922 amounted to \$35333.23.

The sum of \$750.00 should be appropriated for the Sinking Fund for the year 1922.

THE SEWER BONDED DEBT

The Bonded Debt of the Sewer System January 1, 1921 was \$120000.00.

During the year 1921 \$7000.00 was paid from the Town Treasury on this indebtedness, making the total indebtedness on January 1, 1922, \$113000.00. Of this amount \$30000.00 is redeemable by the Sinking Fund which on January 1, 1922 amounted to \$21042.05.

The sum of \$1000.00 should be asked for the Sinking Fund for the year 1922.

SUPERINTENDENT'S REPORT

To the Board of Public Works:—

GENTLEMEN:—I submit the following report of the Public Works Department for the year ending December 31, 1921, making the Thirty-third of the Water System, Twenty-fifth of the Sewer System, and the Ninth of the Highways and Park Departments, with a brief summary of work performed in each department.

WATER DEPARTMENT

This year there has been added to our pipe system 927 feet of 6" C. I. pipe, as voted at our Annual Meeting in March. There were also two Fire Hydrants and 3-6" gates used on the Ballard Vale Road job. This work cost \$1594.49 or \$1.72 per foot. There has also been added in Shawsheen Village and divided as follows:

		HYDRANTS
Southerland street	232	1
Warwick street	497	0
Windsor street	291	0
Kensington street	197	0
York street	1490	2
Argyle street	702	1
Balmoral street	643	1
Riverinsa road	140	0
Sterling street	625	1
Dunbarton street	277	1
Canterbury street	563	1
Ballardvale road	927	2
Previously reported	270283	378
	<hr/>	
	276867	
Total	52.44 miles	388

making the system, December 31st, 1921, 52.44 miles of pipe, 388 hydrants. There were two connections made for fire Lines, these being 6" and both lines were metered, one going to Boiler House, and the other to New Mill. There were many more connections made and more to be made, which will mean in the near future that a 10" main must be laid from our large main at West Andover, down Lowell street, across Main and up Haverhill street to High street, a distance of 10,560 feet. This would cost with necessary hydrants and gates, changing over from our 6" to the new 10" at present prices, about \$34,000. It is necessary that this be done at once, as the Fire Underwriters have already recommended the same.

Pumping Station number 1 at Haggetts Pond has been operated during 1921, 365 days, using our steam plant 305 and our oil engine 60 days. We pumped 219,173,467 gallons of water and the pumping time 3,587 hrs. 45 min., making 600,475 gallons as a daily average.

The station on Bancroft road has given good results. This station has been run by electricity with the exception of about ten days, when power was off. We then used our oil engine, which is in very good condition. This plant is only operated about thirty hours a week.

During the summer, the Fire Underwriters were here and made some tests; pressures were taken and many recommendations were made. Some of these have been attended to and some will be impossible to carry out without a great deal of money being expended. The pressures taken were at the following places.

Andover Square	73
Park street	70
Summer and Avon streets	59
Maple and Walnut avenue	80
Lowell street at Main	118
Main and Union streets	110
Harding and Main streets	108
Pearson and Main streets	80
Essex street near B. & M. RR.	120

Lowell street and High Plain road	75
Argilla road and Andover street	125
Andover and Centre streets, Ballardvale	114
Ballardvale road and Main street	90
Holt and Stinson roads	55
Salem street	78
Highland road	55
Bartlet street and Chapel avenue	70
Main, School and Phillips streets	30
School and Abbot streets	75

During the year we were called on account of twenty leaks, nine of these were joints partly blown; two for split pipes; and the remaining nine being on service pipe. One bad break, just outside our pumping station split a 14" Y and it was impossible to get one anywhere in stock, so we made a temporary hitch and ordered a special one. This job is one that has bothered a good deal and probably now we will have no more trouble from the same.

Receipts for Water, 1919, \$23,864.58	Gals. pumped	218,279,797
* " " " 1920, 31,416.47	" "	254,727,887
" " " 1921, 28,013.36	" "	219,173,467

* Received from Lawrence \$5,093.20; pumped 27,216,675 gallons.

I would recommend the following sums for the year 1922.

For maintenance

Salaries and labor	\$11,000.00
Coal	3,000.00
Fuel oil	500.00
Engine and cylinder	700.00
Power No. 2 station	1,400.00
Horse and car	600.00
Miscellaneous	1,000.00
Measuring device	1,000.00
To start improvement on grounds	800.00
	<hr/>
	\$20,000.00

and for a 10" C. I. Main from the West Church down Lowell Street across Main Street up Haverhill to High Street, at a cost of about \$34,000.00. Bonds should be issued for \$40,000.00 as there is other work coming right along and we have no money for extensions.

SERVICE PIPE

We received sixty-one applications, and laid sixty-three during 1921, making 1657 now in use, or a distance of 130,144 feet. 102 meters, varying in sizes from 5-8 to 6" were set and I would recommend the same appropriation for 1922, i.e. \$2000.00.

RECEIPTS FOR 1921

For service pipes and meters		\$ 9568.51
Water Rates		28013.36
Town Treasurer, Water Rates	\$28013.36	
Pipe account	9568.51	
	<hr/>	<hr/>
	\$37581.87	\$37581.87

SEWER DEPARTMENT

MAINTENANCE

Only regular work, such as taking care of the Filter Beds, repairing stoppage, cleaning and flushing, was done this past year; for which I would recommend for the year 1922 the sum of \$3000.00.

HOUSE CONNECTIONS

Six applications were received for House connections. These were all laid, making a total of 762 now in use.

COMMON SEWERS

The appropriation for Poor and Main Streets at last Town Meeting was \$3500.00.

1620 feet of 8" sewer was laid with necessary manholes for the sum of \$2714.22, balance of \$785.78.

Lowell Street work was started but owing to weather conditions was stopped until spring.

Appropriation at Special Town Meeting	\$5000.00
Bills approved to Jan 1st.	3053.78

BAL.	\$1946.22
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HAVERHILL STREET SEWER

Appropriated, March 1921	\$8,750.00
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Bids were asked for this work and the successful bidder was Mr. Joseph McCarthy, the bid being \$9186.08.

Rock work \$8.60 per yard extra. The town furnished all pipe brick and manhole rings and covers. A great amount of rock was uncovered and it will be necessary to have \$5748.08 appropriation in 1922 to pay for work already done under this contract. Without this the sewer would have been of no benefit to the thirty or forty odd houses above the Boston & Maine underpass.

Approved bills to Jan. 1st \$8745.79 leaving a balance of \$4.21 with \$5748.08 more to pay for work already done and contract completed.

SUMMARY COST OF CONSTRUCTION

WATER DEPARTMENT

DESIGNATION	Approved Bills	Credits	Net Cost 1921	Total
Office fixtures	\$	\$	\$	\$ 561.75
Electrometers				1311.63
Telephones				184.77
Pumps				583.65
Pipe Distribution	2319.21		2319.21	256724.23
Service Pipe	6583.44	4600.98	1982.46	34258.10
Water and Land				6687.23
Construction pipe				1309.46
Reservoir				16985.82
Coal Shed				806.97
Grading Land				1739.12
Workshop				1271.88
Buildings at Pumping Station .				9610.14
Pumping plants				47983.54
Construction Ex.				9406.21
Tools				3593.14
Maintenance	22713.52	4968.13	17745.39	
"	22.03		22.03	
	\$31638.20	\$9559.11	\$22069.09	\$393007.58

SUMMARY COST OF CONSTRUCTION

SEWER DEPARTMENT

Sewer Main in feet	54164		
Number of Filter Beds		28	
Number of Sludge Beds		3	
Cost to Abutters			\$124519.78
Cost to Town			\$187522.95
	54164	31	\$312042.73

EXPENDITURES

NAMES	WATER DEPARTMENT				SEWER DEPARTMENT				
	Mainte- nance	Service Pipe	Pipe Dist.	Total	Mainte- nance	House Con- nection	Common Sewers	Total	Grand Totals
Pay Rolls, Labor and Teams	\$11728.11	600.26	\$395.39	\$12723.76	\$ 697.97	\$ 471.06	\$ 2715.73	\$ 3884.76	\$16586.49
Boston and Maine, Freight	100.67	33.57	12.97	147.21		1.83	942.25	944.08	1091.29
New. Eng. Tel and Tel.	295.67			295.67					295.67
Law Gas Co., power and light	1414.52			1414.52	470.26			470.26	1884.78
American Ex..	25.93	7.86		33.79					33.97
C. Fares and Stamps	226.47			226.47			14.18	14.18	240.65
Yawman and Erbe, cabinet.	75.40			75.40					75.40
Roland G. Glines, labor	8.80			8.80					8.80
Andover Press	216.56	54.25		270.81					270.81
E. V. Hethrington, supplies	6.00			6.00					6.00
Andover Coal Co.	186.30			186.30					186.30
Edson Mfg. Co.	2.48			2.48					2.48
W. I. Morse	106.03	35.40		141.43	19.85	68.18	15.70	103.73	245.16
C. I. Alexander	38.61			38.61					38.16
John McDonough	22.88			22.88			734.13	734.13	757.01
Frank L. Holt, salary					1500.00			1500.00	1500.00
R. L. Buchan, supplies	365.17			355.17	188.63			188.63	543.80
Boston and Lawrence Ex.	1.43			1.43					1.43
H. E. Miller	31.50			31.50	6.70			6.70	38.20
A. Nat. Bank.					5.00			5.00	5.00
John Franklin					2.45		727.00	729.45	729.45
Smart and Flag	3.00			3.00	20.00			20.00	23.00
Hiller and Co., supplies					4.50		114.96	119.46	119.46

Hamilton Brown Co., supplies	.	.	.	.	65.30				65.30	
Gray and Kendall, supplies.	.	.	.	.	9.39				9.39	
Waldo Bros. and Bond Co., supplies	.	.	.	.	6.40					
Portland Stoneware Co., pipe	24.52			14.56	39.08				222.49	
C. M. White, sewer covers									2023.38	
Joseph McCarthy, contract									618.75	
Cury Bros., supplies	229.01				229.01				6000.00	
Farley, Harvey and Co.									50.28	
R. L. McDonald, pipe									66.36	
P. L. Hardy	34.93				34.93				21.00	
M. O. Mahoney, pipe									554.06	
Boston Pipe and Fitting	39.07				39.07				3.36	
E. W. Pitman, stock									90.40	
F. E. Dodge, cement									109.13	
M. J. Doyle, ex.									18.60	
Law. Rubber Co., mittens									.48	
Pittsburg Meter Co., supplies									4.50	
Neptune Meter Co., supplies	210.96	456.82			667.78				667.78	
Nat. Meter Co., supplies	49.30	1375.29			1424.59				1424.59	
Bride Grimes Co., supplies	38.38				38.38				38.38	
Runsey Pump Co., supplies	159.39				159.39				159.39	
A. M. Colby, supplies	11.39				11.39				11.39	
Water Works Equipment, supplies	6.00				6.00				6.00	
H. B. McArdle, supplies	691.47	264.60			956.07				956.07	
Buffalo Meter Co., supplies	11.03				11.03				11.03	
Vacuum Oil Co., oils	2.80				2.80				2.80	
August Meitz.	840.20				840.20				840.20	
A. W. Cox Co.	26.66				26.66				26.66	
Thomson Meter Co.	28.12				28.12				28.12	
Canon Meter Co.	5.65	921.06			926.71				926.71	
Rensselaer Valve Co.	300.34	300.34			300.34				300.34	
	524.10	68.75	708.90		1301.75				1301.75	

NAMES	WATER DEPARTMENT				SEWER DEPARTMENT			
	Mainte- nance	Service Pipe	Pipe Dist.	Total	Mainte- nance	House Con- nection	Common Sewers	Total
George Snell		30.05		30.05				30.05
Ralph Bailey, meter		20.00		20.00				20.00
Chadwick Lead Co.		16.29		16.29				16.29
H. Mueller and Co.		536.53		536.53				536.53
Lead Lined Iron Pipe Co.		1220.94		1220.94				1220.94
Ware Coupling Co.		20.26		20.26				20.26
Chapman Valve Co.		23.13		23.13				23.13
Walworth Mfg. Co.	44.42	207.03		251.45				251.45
Buchan and McNally	9.00	55.56		64.56			14.97	14.97
Treat Hardware		3.80		3.80				3.80
Builders Iron Foundry	265.37		91.29	356.66				356.66
Donaldson Iron Co.			1041.97	1041.97				1041.97
National Lead Co.	164.12		54.13	218.25				218.25
John Shea	156.32			156.32				156.32
Sinclair Refining Co.	508.95			508.95				508.95
Cross Coal Co.	3283.43			3283.43				3283.43
W. H. Coleman . . . . .	.72			.72				.72
H. J. Stanchfield	2.20			2.20				2.20
C. A. Hill	12.82			12.82				12.82
John L. Morrison	61.01	31.65		93.35				93.35
Hersey Mfg. Co.	23.02			23.01				23.01
J. H. Campion and Co.	1.20			1.02				1.02
George D. Fitts	7.30			7.20				7.20
Cutler, Dummer Co.	2.70			2.30				2.30
C. S. Buchan	13.75			13.75				13.75

Law. Meh. Co.	.	.	.	.	.	172.95
Ashton Valve Co.	.	.	.	.	.	75.60
P. J. Hannon	.	.	.	.	.	100.62
A. W. Chesterton	.	.	.	.	.	7.50
Davis Foundry	.	.	.	.	.	4.32
Law. Belting Co..	.	.	.	.	.	2.75
Lyle Bros.	.	.	.	.	.	17.50
Frank H. Hardy	.	.	.	.	.
Anderson and Bowman	.	.	.	.	.
Crosby Steam Gauge	.	.	.	.	.	22.50
Shawsheen Garage	.	.	.	.	.	2.50
Philip Foster	.	.	.	.	.	275.00
John Riley	.	.	.	.	.	4.00
W. C. Crowley	.	.	.	.	.	3.47
Edith Sellars	.	.	.	.	.	12.00
	
	.	.	.	.	.	\$22735.55
						\$6583.44
						\$2319.21
						\$31638.20
						\$2996.45
						\$1124.08
						\$14957.54
						\$19078.07
						\$50716.27

HIGHWAYS AND PARKS

To the Board of Public Works:—

GENTLEMEN:—I submit for your approval the Ninth annual report of the Highway Department for the year ending December 31st, 1921. During January, February and March, we were sanding sidewalks, shoveling gutters and plowing, keeping catch basins opened. The snow cost this year was only \$1834.12 including the sand used on sidewalks the entire year, together with repairs on old plow and one new one, made by John L. Morrison. We now have ten plows and nine routes, which in any ordinary storm may be covered in four hours. When the frost was out of the ground we started cleaning up the streets and clearing out all catch basins. On completion of this we started patching up our Tarvia Roads and the blanketing of same, which when we completed on May 10th, we started construction work on Lowell Street May 11th and completed this on August 18th, 1921. On August 19th we started Summer Street, finishing September 22d. On Sept. 26th we started Andover Street to B. Vale and completed this Nov. 14th. Since then we have been patching up gravel roads, cleaning catch basin, sanding sidewalks and general work. We also helped clean up brush, resulting from the Ice Storm, using three of our men and our team, to aid the Tree warden for about two weeks.

BLANKETING OF STREETS

During the year 1921, 39,405 gallons of tarvia was used for this work, at a cost of \$5910.75. Sand used for this work cost \$1587.29. The cost of blanketing was kept this year on several different streets and found to be including patching, about .04½ per yard.

BRIDGES

It was necessary to put in new timbers and replank the Stevens Street Bridge this year. The work was done by Mr. Charles.

Torrey and cost \$711.77. The Ballard Vale Bridge on Andover Street had to be all new timbered and planked; bids were asked for this and Mr. Torrey was awarded the job which cost \$1590.00. I would say the Town furnished the paint for both of these bridges which were given two coats of asphalten paint, made especially for bridge work.

The Central Street Bridge is in a very dangerous condition, the trusses are about ready to fall and the timbers are in very bad shape. There should be a new Cement bridge built there at once.

SIDEWALKS

During the past year there was set Six hundred and forty-three feet of curbing, four hundred and eight yards granolithic walk on Main Street from Stevens Street to the Shawsheen River Bridge, at a cost of \$2236.84. Tar sidewalks were built on School, Locke, Punchard Avenue and Summer Streets. Gutters were patched on School and High Streets and Maple Avenue, and a great many driveways, either made new or patched, so that automobiles could get in and out.

CONSTRUCTION

Construction work was started on Lowell Street on May 11th and completed August the 18th. During that time we completed 4549 feet of 18 foot road or 9098 square yards. There was considerable filling on this piece which made the cost higher than piece previously done. The total cost of the job was \$29875.39. The table of cost will be found in the Expenditure sheet, which includes \$1100.00 for bills on the 1920 work.

Summer Street was then taken up on August 19th and when finished on September 22d we had completed 5531 yards of road with necessary catch basin and piping. The cost of this work was \$9372.90 or about \$1.69 per yard.

Andover Street was started on September 26th and completed the 14th of November. During that time we built 7472 yards of Tarvia road with necessary pipes for draining at a cost of \$9985.73 or about \$1.34 per yard.

BALLARD VALE DISTRICT

Only necessary repairs have been done in Mr. Haggerty's section this year, costing for teams and labor \$2489.76.

Ashes have been put on Woburn Street, Haggetts Pond Road, Bailey, River and Highland Roads, and Stinson Street. Many hundred loads have been scattered on the different streets throughout the town; some three or four loads and on others more. The cost of this work for the year was \$7000.00.

Recommendations:

MAINTENANCE

Labor and teams	\$11000.00
Tarvia B. and Sand	4000.00
Sid walks	3000.00
Gravel and ashes	6000.00
Snow	2000.00
Drain	1000.00
Keeping team and car	1000.00
Miscellaneous	1000.00
Bridges	1000.00
	<hr/>
	\$30000.00

I have made a careful study of Phillips Street, measuring the same and find that it will take about 3400 feet of curbing and 7200 square yards of road to be built from Main to Central Streets, at an estimated cost of \$19,500.00. Abbot Street between School and Phillips Streets, should be built at the same time which will mean about 3120 yards at a cost of \$6500.00. The balance of our construction money should be spent on Essex Street, below the Boston and Maine R. R. crossing up Shawsheen Road toward the West Church, this would be to Stevens St., about \$8000.00. River Road will have to be scarified and shaped up and a blanket coat. I would recommend \$30000.00 for new work.

PARK DEPARTMENT

During the year 1921 only the necessary work was done on the park, such as taking care of the lawns, walks and shrubbery.

The athletic field had its usual care together with the boulders on Ridge Street.

Appropriation March 1921	\$1200.00
Expenditures	1213.74
	<hr/> 13.74
Same appropriation will be necessary in 1922.	\$1200.00

FINANCIAL STATEMENT

Appropriation, March 1921		
Highway department, maint.		\$30000.00
Highway department, const.		30000.00
Lowell Street		5000.00
County, Lowell Street		9958.46
State, Lowell Street		9958.46
Credits		4650.12
Expenditures		
Maintenance	\$29091.89	
Construction	25200.34	
Lowell Street	29875.39	
Snow	1871.37	
Tools	223.55	
Bridges	2301.77	
Drain	906.08	
	<hr/> \$89470.39	
Balance	96.65	
	<hr/> \$89567.04	<hr/> \$89567.04

HIGHWAY EXPENDITURES, 1921

Names.	Maintenance	Construction	Lowell street	Sidewalks Snow	Tools Bridges Drains	Totals
Pay Rolls Labor and Teams	\$11238.14	\$7796.09	\$9693.18	\$1577.52		\$30304.93
Boston and Maine	592.71	2272.75	2497.30			5362.76
B. L. McDonald Co.		58.32	532.05		105.00	695.37
Anderson and Bowman	27.60	61.35	33.55			121.90
E. P. Hall	90.09	1743.28	425.47		85.55	2344.39
Gray and Kendall	31.16	14.90	.90			46.96
Arden Trustees.			830.00			830.00
H. J. Stanchfield			42.15	7.00		49.15
W. I. Morse	96.20	18.02	52.58		174.55	341.35
J. Brady	3106.00	588.00	3331.68			7025.68
Pacific Mills	1877.60	255.43	188.37			2321.40
R. L. Buchan	53.96		42.57			96.53
Highway Dept.			910.53			910.53
Etalio Belmessino			176.50			176.50
J. E. Pitman	109.55	41.85	888.06			1039.46
John McDonough	2337.43	1033.50	2901.80			6272.73
Barrett Mfg. Co.	6119.54	1740.20	3498.60			11358.34
Essex Trap Rock	376.13	4141.37	3561.60			8079.10
Porter Livingston			215.00			215.00
Joseph Vohn			53.50			53.50
Hariz Motor Co.		596.00				596.00
John L. Morrison	34.75	24.64		254.35		313.74
John Shea	212.27	142.89				355.16
Dillon Mch. Co. . . . .		.90				.90
B. and L. Ex.	1.21	.97				2.08

Am. Woollen Co.					460.55			460.55
Smith & Dove					86.34			87.84
H. I. Dallman					24.72			47.94
C. M. White								181.50
Ames Plow Co.								4.05
A. M. Colby					1.50			3.50
H. E. Fletcher								709.61
Cross Coal								29.15
Benj. Jaques								7.00
A. Coal Co.								155.98
W. F. Duffee					57.33			2770.25
J. L. Harvey								20.25
Andrew Thompson								1.75
A. P. Wright								10.50
Am. Ex.					3.34			3.34
Curtis Shoe Co.					1.25			1.25
J. H. Campion					.46			.46
George W. Paine					23.90			23.90
A. Press					2.00			2.00
Geo. Dumont					68.63			68.63
A. O. Barker					114.75			114.75
H. A. Prescott					26.45			26.45
A. E. Johnson					151.50			151.50
J. H. Richardson					77.17			77.17
P. J. Harmon					58.36			233.76
Buffalo Steam Roller					175.40			21.75
A. W. Cox Co.					21.75			28.12
A. W. Cox Co.					28.12			28.12
C. A. Hill					2.10			2.10
Tyer Rubber Co.					55.00			55.00
Arlington Mills					22.00			22.00

Names.	Maintenance	Construction	Lowell street	Sidewalks Snow	Tools Bridges Drains	Totals
Hood Farm	113.00					113.00
Moulthrop & Youman	4.50					4.50
New Eng. Sand & Gravel	396.70					396.70
Madeline Hewes	40.00					40.00
M. O. Mahoney	126.00					126.00
Alden Spears	75.00					75.00
Fire Dept.	1079.12					1079.12
Ira Buxton . . . . .	.90					.90
Auto Welding Co.	21.50					21.50
Lewis T. Boutwell	20.00					20.00
Dole & Smith	15.00					20.00
E. Mass. St. Ry. Co.	27.13					27.13
Ada Buchan	5.00					5.00
James McGovern	15.00					15.00
Lyle Bros.		26.20				26.20
Samuel Ramsden		57.60				57.60
Frank Sherry		47.20				47.20
John Franklin		64.00				64.00
P. L. Hardy					59.71	59.71
Curry Bros.					52.50	52.50
New England Metal Culvert Co.					433.56	433.56
W. W. Equipment Co.		12.00				12.00
Charles Torrey					2249.27	2249.27
Portland Stoneware Co.					271.26	271.26
	\$29069.86	\$25200.34	\$29875.39	\$1871.37	\$3431.40	\$89448.36

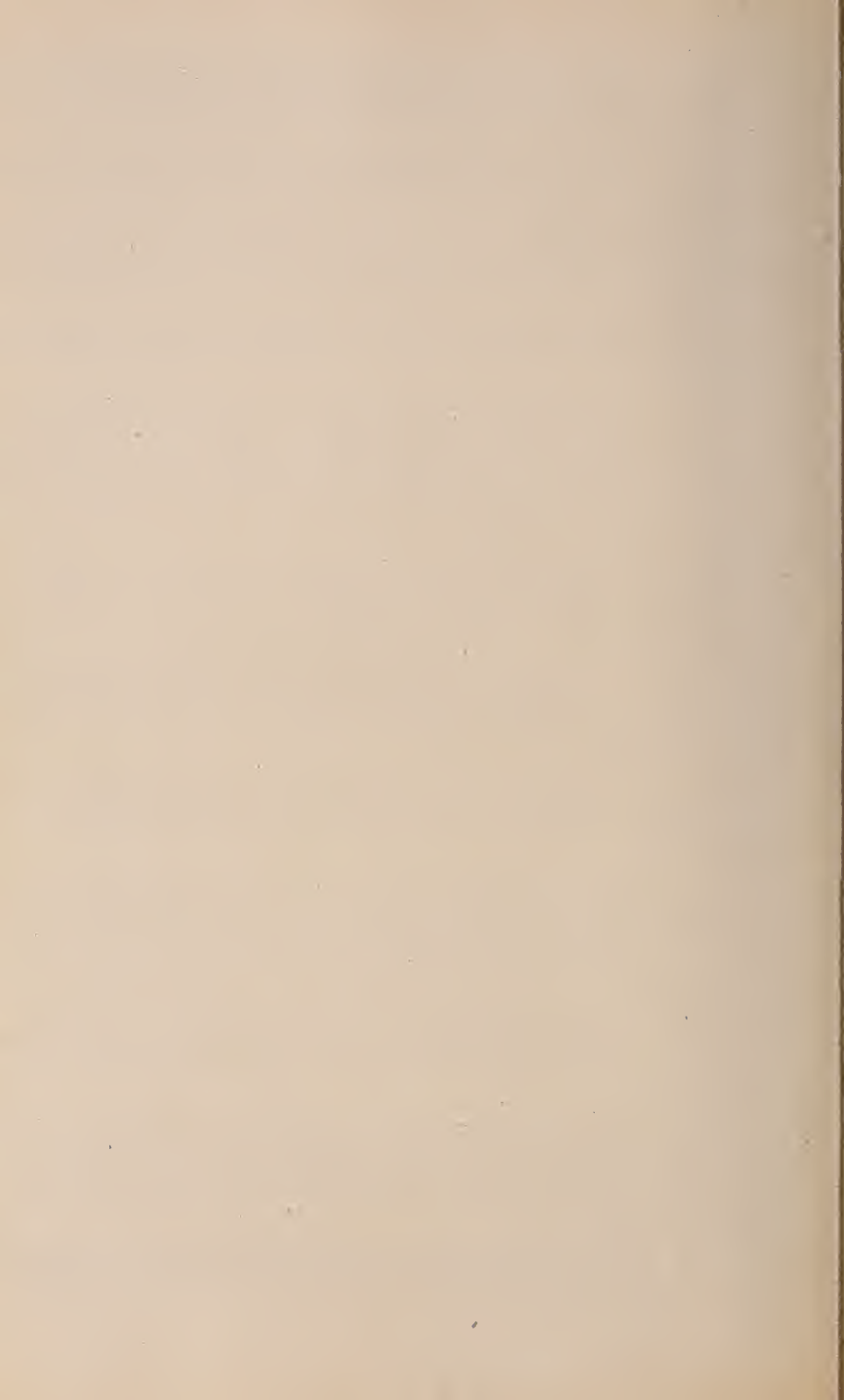
COMPARATIVE STATISTICS, Approved to Jan. 1, 1922

JANUARY 1, 1922

Year	Received from water rates	Net cost of maintenance	Cost of pumping	Cost per million gal'ns		Received per million gallons	Gallons pumped	No. of service pipes in use	meters in use	No. of h'd'nts	Miles of main pipe
				by total maintenance	by cost of pumping						
1889	Work commenced	.....	.....	.....	.....	.....	6 months	46	..	16	.....
1890	\$ 310638	2999 99	1776 21	.....	.....	.....	24,911,445	309	80	163	20.50
1891	5349 32	3399 93	1806 93	52 85	27 97	82 81	64,595,597	462	122	165	21.50
1892	5977 41	3491 22	2185 83	40 77	25 53	68 42	85,618,190	542	171	174	22.37
1893	7647 95	3792 56	2408 20	36 42	23 13	73 46	104,123,285	601	204	178	23.50
1894	8378 44	4514 47	3354 04	38 31	28 47	71 27	117,847,305	654	237	178	23.53
1895	8434 15	4380 13	3151 33	37 32	26 87	71 81	117,354,950	706	278	180	24.00
1896	9052 31	4627 53	2557 61	37 47	20 71	78 79	123,476,542	752	326	184	24.12
1897	*8011 87	4336 58	2383 71	37 67	20 71	69 61	115,094,527	789	486	184	24.16
1898	7792 40	3662 43	2196 31	32 33	19 38	68 78	113,287,775	819	571	193	24.91
1899	9376 29	4471 04	2656 42	31 21	19 24	65 45	143,260,253	845	616	194	25.12
1900	10668 57	4915 23	3158 50	33 07	21 25	71 78	148,618,935	876	641	196	25.83
1901	*8941 83	7955 34	3430 35	45 44	19 59	51 00	175,062,920	897	670	196	25.84
1902	11805 21	5787 44	3035 47	40 59	25 63	100 01	118,031,451	934	701	205	29.69
1903	11563 79	7389 44	2922 36	55 52	21 96	86 89	133,085,521	958	722	219	30.17
1904	11818 53	6378 96	3004 34	44 25	20 84	81 98	144,164,563	981	757	221	30.49
1905	12409 79	7228 82	3426 98	44 03	20 87	75 60	164,150,879	1013	791	223	30.95
1906	13516 47	8121 37	3054 09	45 39	17 29	76 48	176,717,579	1036	813	224	31.03
1907	17267 86	8112 47	4825 63	33 34	19 94	75 48	242,025,757	1060	848	227	31.35
1908	14908 89	7419 65	3750 29	39 52	19 97	79 41	187,750,372	1101	884	257	35.22
1909	16407 21	7499 95	3967 72	36 96	19 55	81 16	202,885,685	1147	926	273	38.07
1910	17613 66	8378 32	4234 61	36 50	18 50	76 93	228,939,882	1187	977	290	40.81
1911	18515 99	7974 79	3584 62	39 21	17 62	91 03	203,401,371	1245	1023	321	44.34
1912	19687 47	8117 57	3583 45	39 58	17 48	95 99	205,097,460	1304	1081	344	46.99
1913	22739 88	8412 89	4471 18	36 84	19 58	96 58	228,344,927	1353	1146	351	47.70
1914	19614 00	10306 80	4434 65	43 86	18 86	83 47	234,973,550	1405	1195	364	49.64
1915	22451 01	9982 98	4464 45	42 49	18 55	93 32	†240,599,178	1465	1262	369	50.08
1916	23496 87	11998 60	4842 20	46 67	21 91	94 02	†220,945,880	1492	1290	377	51.19
1917	24780 82	11538 26	5460 42	52 95	25 06	113 72	†217,894,123	1503	1311	377	51.19
1918	27053 04	15838 48	10092 80	58 93	37 56	100 67	†268,733,008	1470	1328	378	51.19
1919	23864 58	18257 99	7093 30	83 64	37 72	91 46	†218,279,797	1521	1370	378	51.19
1920	31416 47	19924 11	9949 64	78 23	39 06	81 08	†254,727,887	1594	1460	378	51.19
1921	28013 36	17745 39	9083 83	89 65	41 44	127 80	†219,172,467	1557	1562	388	52.44

* Regulations and rates changed.

† No allowance for slippage.



TOWN OF ANDOVER

ANNUAL REPORT

OF THE

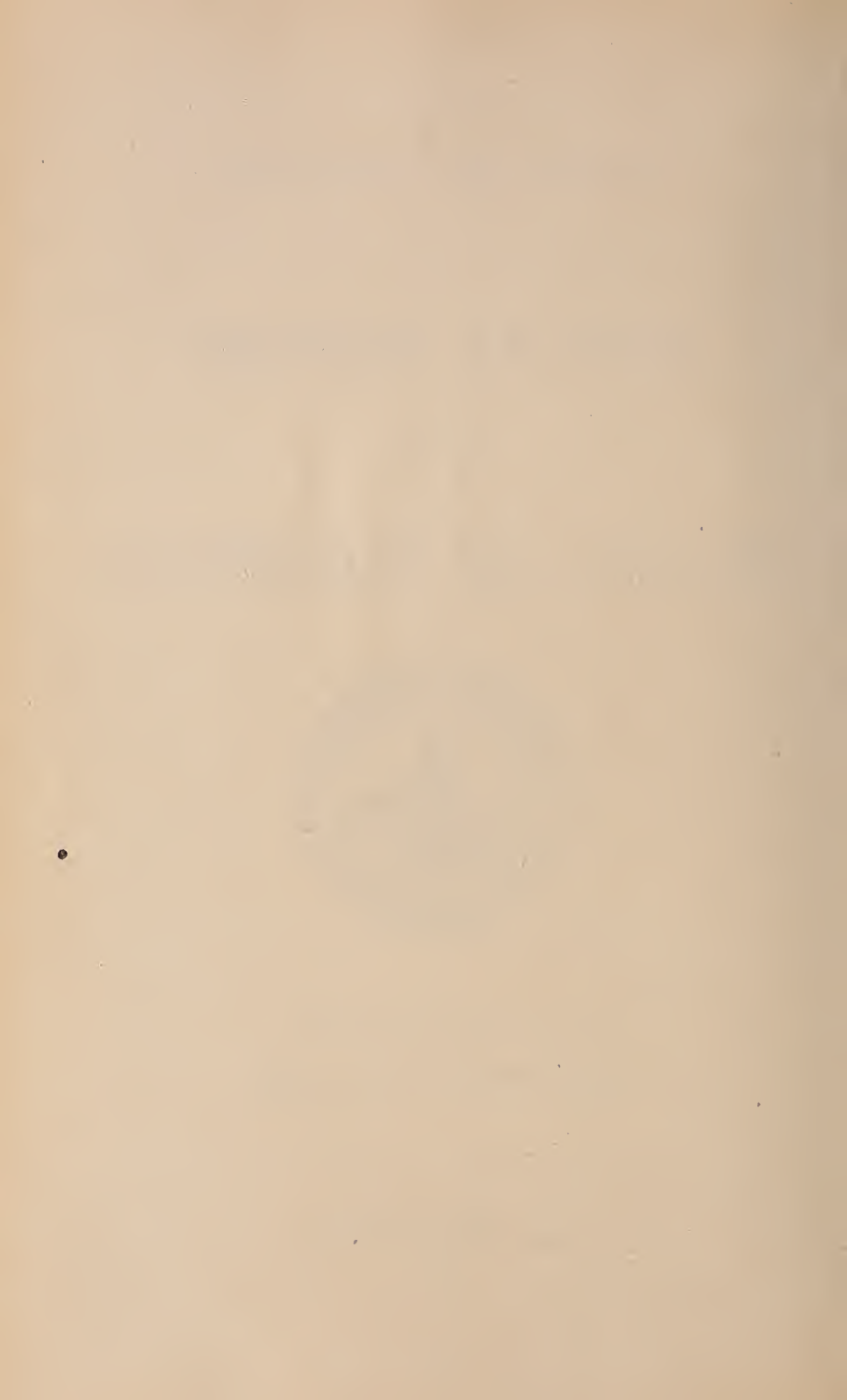
Receipts and Expenditures



FOR THE FISCAL YEAR ENDING

DECEMBER 31, 1922

ANDOVER, MASS.
THE ANDOVER PRESS
1923



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TOWN OFFICERS 1922

Selectmen and Overseers of the Poor

WALTER S. DONALD, <i>Chairman</i>	Term expires	1923
CHARLES BOWMAN	" "	1924
ANDREW McTERNEN, <i>Secretary</i>	" "	1925

Assessors

WALTER S. DONALD, <i>Chairman</i>	Term expires	1923
CHARLES BOWMAN	" "	1924
ANDREW McTERNEN, <i>Secretary</i>	" "	1925

Town Clerk

GEORGE A. HIGGINS

Town Treasurer

GEORGE A. HIGGINS

Tax Collector

WILLIAM B. CHEEVER

School Committee

FREDERICK E. CHEEVER	Term expires	1923
EDWARD C. CONROY	" "	1923
ALFRED E. STEARNS	" "	1923
EVERETT C. HILTON	" "	1924
MARY W. FRENCH	" "	1924
DAVID R. LAWSON	" "	1924
ROY H. BRADFORD	" "	1925
DOUGLAS G. CRAWFORD	" "	1925
W. DUDLEY YATES	" "	1925

Superintendent of Schools

HENRY C. SANBORN

Board of Public Works and Sinking Fund Commission

THOMAS E. RHODES	Term expires	1923
PHILIP L. HARDY	" "	1924
WILLIAM D. McINTYRE	" "	1924
ARTHUR T. BOUTWELL	" "	1925
EDWARD SHATTUCK	" "	1925

Superintendent of Water, Sewer Department, Highways and Parks

FRANK L. COLE

Engineers of Fire Department

CHARLES F. EMERSON, *Chief*

LLEWELLYN D. POMEROY, *Clerk*

HARRY E. WELLS

Board of Health

BANCROFT T. HAYNES

Term expires 1923

FRANKLIN H. STACEY

“ “ 1924

CHARLES E. ABBOTT, M.D.

“ “ 1925

Chief of Police

FRANK M. SMITH

Constables

GEORGE W. MEARS

Term expires 1923

FRANK M. SMITH

“ “ 1923

GEORGE N. SPARKS

“ “ 1923

Trustees of Memorial Hall Library

ALFRED E. STEARNS

Term expires 1923

BURTON S. FLAGG

“ “ 1924

E. KENDALL JENKINS

“ “ 1925

REV. FREDERICK A. WILSON

“ “ 1926

FREDERIC S. BOUTWELL

“ “ 1927

NATHAN C. HAMBLIN

“ “ 1928

*CHARLES U. BELL

“ “ 1929

Trustees of Punchard Free School — Terms expire 1925

FREDERIC S. BOUTWELL

JOHN H. CAMPION

MYRON E. GUTTERSON

HARRY H. NOYES

EDMOND E. HAMMOND

Auditors

JOHN S. ROBERTSON

WALTER H. COLEMAN

HARRY SELLARS

* Deceased.

Trustees of Cornell Fund

JOHN C. ANGUS	Term expires 1923
DR. WILLIAM D. WALKER	" " 1924
CHARLES N. MARLAND	" " 1925

Superintendent of Moth Department

EDWARD H. BERRY

Tree Warden

EDWARD H. BERRY

Moderator of Town Meetings

ALFRED L. RIPLEY

Registrars of Voters

SAMUEL P. HULME	JOHN F. HURLEY
PATRICK J. SCOTT	GEORGE A. HIGGINS, <i>Clerk</i>

Trustees Spring Grove Cemetery

WALTER I. MORSE	DANIEL H. POOR
FRED E. CHEEVER	WARREN L. JOHNSON
EVERETT M. LUNDGREN	DAVID R. LAWSON
JOHN W. STARK	

Street Lighting Committee

WALTER H. COLEMAN	HENRY J. GARDNER
FREDERIC G. MOORE	JOSEPH L. BURNS
FRED G. CHENEY	

Finance Committee

HENRY A. BODWELL, <i>Chairman</i>	GEORGE ABBOT
JOHN C. ANGUS, <i>Secretary</i>	CHESTER W. HOLLAND
EDWARD V. FRENCH	GEORGE H. WINSLOW
GEORGE L. AVERILL	

TOWN WARRANT

THE COMMONWEALTH OF MASSACHUSETTS

ESSEX, ss.: To either of the Constables of the Town of Andover: GREETING:

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in elections and in town affairs to meet and assemble at the Town House in voting Precinct One and the Old School House Ballard Vale in voting Precinct Two, in said Andover, on MONDAY, the SIXTH DAY OF MARCH, 1922, at 6 o'clock a.m., to act on the following articles:

Article 1. — To elect a Moderator for one year, Town Clerk for one year, Treasurer for one year, Collector of Taxes for one year, one member of the Board of Selectmen for three years, one member of the Board of Assessors for three years, three members of the School Committee for three years, Five Trustees of Punchard Free School for three years, two members of the Board of Public Works for three years, one member of the Board of Health for three years, three Auditors of accounts for one year, three Constables for one year, one Trustee of Memorial Hall Library for seven years, one Tree Warden for one year and all town officers required by law to be elected by ballot. Also to take action on the following question, Shall licenses be granted for the sale of certain non-intoxicating beverages in this town?

All to be voted for on one ballot. The polls will be open from 6 o'clock a.m. to 5 o'clock p.m.

After final action on the preceding article one, the said meeting shall stand adjourned by virtue of Section 20, Chapter 39 of the General Laws to Monday March 13th, at 1.30 o'clock p.m. at the Town Hall, then and there to act upon the following Articles, namely:

Article 2. — To elect all other officers not required by law to be elected by ballot.

Article 3. — To determine what sums of money shall be appropriated for Almshouse Expenses, Relief out of Almshouse, Aiding Mothers with Dependent Children, Board of Health, Brush Fires, Fire Department, Hay Scales, Highway Department, Insurance, Interest, Memorial Hall Library, Memorial Day, Post 99, G. A. R., Miscellaneous, Parks and Playsteads, Police, Printing and Stationery, Public Dump, Retirement of Veterans, Redemption of Water, Sewer, High School, and Shawsheen Bridge Bonds, Schools, Sewer Maintenance, Sewer Sinking Funds, Soldiers' Relief, Spring Grove Cemetery, State Aid, Street Lighting, Town Officers, Town House, Tree Warden, Moth Department, Water Maintenance, Construction and Sinking Funds, and other town charges and expenses.

Article 4. — To see if the town will approve the recommendation of the Board of Public Works and vote to reconstruct the highway on Main Street from Chapel Avenue to Andover Square, with macadam pavement or other road material in accordance with plans and specifications prepared by the State Department of Public Works, Division of Highways. Also to see if the town will vote that said work of reconstruction be done by contract under the supervision of the Board of Public Works at an expense not to exceed \$100,000. Also to see if the town will vote that notes or bonds of the town be issued to raise funds for the payment of work undertaken under this article, payable annually in the years 1923, 1924, 1925, 1926 and 1927, in conformity with Chapter 44 of the General Laws.

Article 5. — To see if the Town will authorize and direct the Board of Public Works to petition the legislature for authority to issue bonds or notes, outside the statutory limit to the amount of \$40,000. to be denominated on the face thereof "Andover Water Loan, Act of 1922", said loan to be for the purpose of making necessary changes in and extending the present system of water works in the town of Andover under such terms and

conditions as the General Court may provide, on petition of the Board of Public Works.

Article 6. — To see if the town will authorize and direct the Board of Public Works to petition the Legislature for authority to borrow \$200,000. outside the statutory limit of indebtedness, by bond issue or otherwise, for the following purposes: To construct and maintain a pipe line, in accordance with plans approved by the State Board of Health, for the purpose of disposing of the sewage of the Town of Andover, said pipe line to extend from Andover through the City of Lawrence to the Merrimack River, and to authorize the purchase or taking of land in said Andover and Lawrence necessary for said site and to award and pay damages for said purchases or takings. On petition of the Board of Public Works.

Article 7. — To see if the town will appropriate the sum of \$15,000.00 as their share of the cost in the reconstruction of Main street by the State, through Shawsheen Village on petition of the Board of Public Works.

Article 8. — To see if the Town will appropriate the sum of \$5,748.08 to pay the balance due on Haverhill Street Sewer on petition of the Board of Public Works.

Article 9. — To hear the report of the committee on housing the inmates of the Town Farm and to see if the town will appropriate the sum of \$10,000. in addition to the \$30,000. now on hand, received from the sale of the Town Farm property, for the purpose of erecting a new building and other necessary expenses.

[Article 10. — To see if the town will appropriate the sum of Three thousand (\$3000) dollars to purchase the property in Whittier Court, adjacent to the Playstead, known as the Cunningham property, and consisting of approximately one (1) acre of land with the buildings thereon, on petition of Frederic S. Boutwell and others.

Article 11. — To see if the town will authorize the Selectmen and the School Committee to serve as a joint committee to select a suitable lot of land for municipal or town purposes in the district known as Shawsheen Village. If the land that may be selected cannot be acquired by purchase, to authorize the Selectmen on behalf of the town to exercise the right of taking by eminent domain, awarding damages for land that may be taken, and making a report of their action at a special town meeting to be called not later than April 15, 1922, with a recommendation for an appropriation to cover the award and for such further action as may be necessary, on petition of the School Committee.

Article 12. — To hear and act upon the report of the War Memorial Committee.

Article 13. — To see if the town will, for the purpose of providing a suitable headquarters for a post of the American Legion, approve the leasing of a building or part of a building which shall be under the direction and control of such post subject to such regulations as the town may adopt, and to see if the town will appropriate for the current year the sum of not more than \$1500 therefor, as provided for in General Laws, Chapter 40, Section 9, on petition of the War Memorial Committee.

Article 14. — To see if the town will adopt changes in the voting precincts of the town as recommended by the Selectmen in a statement filed with the Town Clerk in accordance with the provisions of Section 7, Chapter 54 of the General Laws.

Article 15. — To see if the Town will accept the provisions of Sections 42, 43 and 44 of Chapter 48 of the General Laws relating to the establishment of a fire department under the control of an officer to be known as the Chief of the Fire Department.

Article 16. — To see if the town will accept as a town way, as laid out by the Selectmen, the street now known as Magnolia Avenue extending from the junction of Corbett Street and Poor Street, and running northerly 1148 feet and 39 feet in width to land now owned by James Mulligan, on petition of James Mulligan and others.

Article 17. — To see if the town will appropriate the sum of \$150. for the purpose of engraving into the Pilgrim Memorial Monument at Provincetown the name of the Town of Andover and the year of its incorporation, on petition of John H. Soehrens and others.

Article 18. — To hear and act on the report of the committee appointed to consider the matter of a representative town meeting for the Town of Andover.

Article 19. — To fix the pay of the call firemen for the ensuing year.

Article 20. — To determine the method of collecting the taxes for the ensuing year.

Article 21. — To authorize the Town Treasurer to hire money for the use of the town in anticipation of the revenue of the current financial year, with the approval of the Selectmen.

Article 22. — To determine what disposition shall be made of unexpended appropriations.

Article 23. — To act upon the report of the Town Officers.

Article 24. — To determine the amount of money to be raised by taxation the ensuing year.

Article 25. — To transact any other business that may legally come before the meeting.

And you are directed to serve this warrant by posting attested copies and publication thereof, seven days at least before the time of said meeting as directed by the By-Laws of the town.

Hereof fail not and make return of this warrant with your doings thereon, at the time and place of said meeting.

Given under our hands this twenty-third day of February, A.D. 1922.

WALTER S. DONALD
CHARLES BOWMAN
ANDREW McTERNEN

Selectmen of Andover

ANDOVER, March 6th, 1922

ESSEX, SS.

Pursuant to the foregoing warrant, I, the subscriber, one of the Constables of the Town of Andover, have notified the inhabitants of said town to meet at the time and places and for the purposes stated in said warrant by posting a true and attested copy of the same on the Town House, on each schoolhouse and in no less than five other public places, where bills and notices are usually posted, and by publication in the Andover Townsman. Said warrants have been posted and published seven days.

FRANK M. SMITH,
Constable

ANNUAL TOWN MEETING, MARCH 6, 1922

At a legal meeting of the inhabitants of the Town of Andover qualified to vote in town affairs convened in Precincts One and Two in said Andover on Monday the Sixth day of March 1922, at six o'clock in the forenoon, agreeably to the requirements of the foregoing warrant, took up Article One and proceeded to vote for Town Officers and on the License question.

The ballot boxes were found to be empty and registered 0000. The polls opened at 6 o'clock a.m. and closed at 5 o'clock p.m. The total number of ballots cast was 2306. *Viz:* Precinct One 2024, Precinct Two 282.

The result of the balloting was as follows:

MODERATOR — One year:

Precincts

1	2		
1507	183	Alfred L. Ripley	1690
517	99	Blanks	616

TOWN CLERK — One year:

1571	207	George A. Higgins	1778
453	75	Blanks	528

TOWN TREASURER — One Year:

1533	195	George A. Higgins	1728
491	87	Blanks	578

SELECTMEN — Three Years:

280	54	Cora E. Abbott	334
368	54	Martin Doherty	422
1056	143	Andrew McTernen	1199
74	2	Timothy J. O'Sullivan, Jr.	76
189	20	Thomas E. Rhodes	209
57	9	Blanks	66

ASSESSOR — Three Years:

266	60	Cora E. Abbott	326
343	46	Martin Doherty	389
1027	138	Andrew McTernan	1165
75		Timothy J. O'Sullivan, Jr.	75
201	19	Thomas E. Rhodes	220
112	19	Blanks	131

COLLECTOR OF TAXES — One Year:

1561	210	William B. Cheever	1771
463	72	Blanks	535

SCHOOL COMMITTEE — Three Years:

1250	152	Roy H. Bradford	1402
1322	136	Douglas G. Crawford	1458
818	108	Horace D. Wood	926
1006	78	W. Dudley Yates	1084
1676	372	Blanks	2048

TRUSTEES PUNCHARD FREE SCHOOL — Three Years:

1399	173	Frederic S. Boutwell	1572
1291	151	John H. Champion	1442
1346	151	Myron E. Gutterson	1497
1288	162	Edmond E. Hammond	1450
1291	145	Harry H. Noyes	1436
3505	628	Blanks	4133

BOARD OF PUBLIC WORKS AND SINKING FUND COMMISSION —
Three years:

980	53	Arthur T. Boutwell	1033
586	255	Edward P. Hall	841
796	65	Barnett Rogers	861
901	78	Edward Shattuck	979
785	113	Blanks	898

BOARD OF HEALTH — Three Years:

1544	201	Charles E. Abbott	1745
480	81	Blanks	561

AUDITORS OF ACCOUNTS — One Year:

1367	162	Walter H. Coleman	1529
1448	164	John S. Robertson	1612
1384	148	Harry Sellars	1532
1873	372	Blanks	2245

CONSTABLES — One Year:

1300	152	George W. Mears	1452
1392	159	Frank M. Smith	1551
1368	214	George N. Sparks	1582
2012	321	Blanks	2333

TRUSTEE OF MEMORIAL HALL LIBRARY — Seven Years:

1478	169	Charles U. Bell	1647
546	113	Blanks	659

TREE WARDEN — One Year:

976	129	Edward H. Berry	1105
326	35	William M. Ross	361
586	76	Robert A. Stack	662
136	42	Blanks	178

Shall Licenses be granted for the sale of certain Non-Intoxicating Beverages in this town?

667	88	Yes	755
909	115	No	1024
448	79	Blanks	527

All the foregoing officers and questions were voted on by ballot and the check lists were used.

REPORT OF CLERK — PRECINCT ONE

ANDOVER, March 6th, 1922

Polls opened at 6 a.m. and closed at 5 p.m. Ballot box registered at opening 0000. Ballot box registered when closed 2022. Number of ballots cast 2024, including both male and female. Number of male votes cast 1254, number of female votes cast 767. Number of ballots received 2954. Number of ballots returned 930.

MARK M. KEANE, *Clerk*

REPORT OF CLERK — PRECINCT TWO

BALLARDVALE, March 6, 1922

Polls opened at 6 o'clock a.m. Clester Matthews in charge. Polls closed at 5 o'clock p.m. Ballot box registered at opening 0000. Ballot box registered when polls closed 282. Number of ballots received 400. Number of ballots cast 282, number of ballots returned 118. Constable George N. Sparks on duty.

JOSEPH P. LYNCH, *Clerk*

After final action on Article One, the said meeting was adjourned by virtue of Section 20, Chapter 39 of the General Laws, to Monday, March 13th, at 1.30 o'clock p.m. at the Town Hall.

1.30 O'CLOCK P.M. MONDAY, MARCH 13TH, 1922.

The Moderator declared:

Alfred L. Ripley elected Moderator for one year.

George A. Higgins elected Town Clerk for one year.

George A. Higgins elected Town Treasurer for one year.

Andrew McTernen elected Selectman for three years.

Andrew McTernen elected Assessor for three years.

William B. Cheever elected Collector of Taxes for one year.

Roy H. Bradford elected School Committee for three years.

Douglas G. Crawford elected School Committee for three years.

W. Dudley Yates elected School Committee for three years.

Frederic S. Boutwell elected Trustee Punchard Free School for three years.

John H. Champion elected Trustee Punchard Free School for three years.

Myron E. Gutterson elected Trustee Punchard Free School for three years.

Edmond E. Hammond elected Trustee Punchard Free School for three years.

Harry H. Noyes elected Trustee Punchard Free School for three years.

Arthur T. Boutwell elected Board of Public Works and Sinking Fund Commission for three years.

Edward Shattuck elected Board of Public Works and Sinking Fund Commission for three years.

Charles E. Abbott elected Board of Health for three years.

Walter H. Coleman elected Auditor of Accounts for one year.

John S. Robertson elected Auditor of Accounts for one year.

Harry Sellars elected Auditor of Accounts for one year.

Charles U. Bell elected Trustee of Memorial Hall Library for seven years.

Edward H. Berry elected Tree Warden for one year.

Before proceeding with Article 2, the Moderator with the consent of the meeting paid tribute to the late George H. Poor and the following resolutions presented by Hon. John N. Cole were unanimously adopted by a rising vote:

The citizens of Andover, assembled in annual town meeting, desire to make acknowledgment of the long and honorable service to Andover activities rendered by the late George H. Poor.

For more than a half century, his wise counsel and effective leadership contributed to the town's best progress. For a quarter century, he directed the town's affairs as moderator of its public meetings, presiding impartially, counselling wisely and directing unselfishly.

Resolved: That the town has richly benefited by the service of this distinguished son, and hereby records its high appreciation of the part he long played in its life.

Took up Article 2: and chose

Seven Trustees Spring Grove Cemetery, for three years: Walter I. Morse, Fred E. Cheever, John W. Stark, Daniel H. Poor, Warren L. Johnson, David R. Lawson, Everett M. Lundgren.

Chose Trustee of Cornell Fund for three years: C. Northey Marland.

Chose Street Lighting Committee for one year (appointed by Moderator): Walter H. Coleman, Fred G. Cheney, Henry J. Gardner, Joseph L. Burns, Frederic G. Moore.

Chose Finance Committee for one year (appointed by Moderator): George Abbot, Henry A. Bodwell, Edward V. French, Chester W. Holland, George H. Winslow, John C. Angus, George L. Averill.

Took up Article 3.

Voted to appropriate the following stated sums of money:

Almshouse	\$ 6000.00
Almshouse, Relief Out of	5000.00
Aiding Mothers with Dependent Children	2500.00
Board of Health	3300.00
Brush Fires	600.00
Election and Registration	1000.00
Essex County Tuberculosis Hospital	2700.00
Fire Department (with receipts)	23000.00
Hay Scales	125.00
Highway Department	60000.00
Maintenance	30000.00
New Construction	30000.00
Interest	14000.00
Insurance	5500.00
Fire	3000.00
Workmen's Compensation	2500.00
Library	3000.00
Memorial Day	550.00
G. A. R. Post 99	100.00
Miscellaneous	1200.00
Parks and Playsteads	1200.00
Police Department	11000.00

(It being understood extra money appropriated be expended for an additional traffic officer instead of a truck)

<i>Amount carried forward</i>	\$20,627.00
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<i>Amount brought forward</i>	\$20,627.00
Printing and Stationery	2000.00
Public Dump	75.00
Retirement of Veterans	300.00
Retirement of Bonds	15500.00
Sewer	7000.00
High School	6000.00
Haverhill St. Bridge	2500.00
Schools	103420.00
Sewer Department	4000.00
Labor and power	3000.00
Sinking Fund	1000.00
Soldiers' Relief	1500.00
Spring Grove Cemetery (with receipts)	2500.00
State Aid	1000.00
Street Lighting	8200.00
Town Officers	10000.00
Town House	3000.00
Tree Warden and Moth Work	12900.00
Water Department (and Water Rates)	6750.00
Lowell Street Sewer	5000.00
Article 7 — (Main St.)	15000.00
Article 8 — (Haverhill St. Sewer)	5748.08
Article 9 — (Town House)	10000.00
Article 10 — (Cunningham Property)	3000.00
Article 13 — (American Legion)	1500.00
Article 17 — (Pilgrim Memorial)	150.00
	<hr/>
	\$352318.08
State Tax and Highway Tax (estimate)	32000.00
County Tax (estimate)	20000.00
	<hr/>
	\$404318.08

Took up Article 4.

Voted, at 4.29 p.m., That the town reconstruct the highway on Main Street from Chapel Avenue to Andover Square with macadam pavement or other road material in accordance with

plans and specifications prepared by the State Department of Public Works, Division of Highways, and that said work of reconstruction be done by contract under the supervision of the Board of Public Works at an expense not to exceed \$100,000.00. That for the purpose of reconstructing said highway the Town Treasurer is hereby authorized to issue and sell bonds or notes of the town to an amount not exceeding \$100,000. to raise funds for the payment of work undertaken under this article, to be dated August 1, 1922, and payable \$20,000. annually in the years 1923, 1924, 1925, 1926 and 1927 in conformity with Chapter 44 of the General Laws, bearing interest at a rate not exceeding five (5) per cent per annum payable semi-annually. Said bonds or notes shall be denominated on the face thereof "Andover Highway Loan 1922," shall be signed by the Treasurer and countersigned by a majority of the Selectmen and be under the seal of the town. Principal and interest of said bonds or notes shall be payable at such bank or trust company as the Treasurer, with the approval of the Selectmen, shall elect. Said bonds or notes may be sold at public or private sale at not less than their par value and shall be certified by a bank or trust company to be selected by the Treasurer, with the approval of the Selectmen and contain such other statements and facts not inconsistent with this vote and in conformity with Chapter 44 of the General Laws. The vote stood 348 for and 4 against.

Took up Article 5.

Voted, at 4.38 p.m., That the Town authorize and direct the Board of Public Works to petition the legislature for authority to issue bonds or notes, outside the statutory limit to the amount of \$40,000. to be denominated on the face thereof "Andover Water Loan, Act of 1922," said loan to be for the purpose of making necessary changes in and extending the present system of waterworks in the town of Andover under such terms and conditions as the General Court may provide.

Took up Article 6.

Voted at 4.45 p.m., That action on this article be postponed until the next town meeting.

Took up Article 7.

Voted, at 4.47 p.m., That the town appropriate the sum of \$15,000. as its share of the cost in the reconstruction of Main Street by the State, through Shawsheen Village.

Took up Article 8.

Voted, at 4.48 p.m., That the town appropriate the sum of \$5748.08 to pay the balance due on Haverhill Street.

Took up Article 9.

Voted, at 5.23 p.m. After hearing the report of the committee on housing the inmates of the Town Farm it was voted to appropriate the sum of \$10,000. in addition to the \$30,000. now on hand, received from the sale of the Town Farm property, for the purpose of erecting a new building and other necessary expenses.

Took up Article 10.

Voted, at 5.25 p.m., To appropriate the sum of three thousand (\$3000.) dollars to purchase the property in Whittier Court, adjacent to the Playstead, known as the Cunningham property, and consisting of approximately one (1) acre of land with the buildings thereon.

Also that the town express its appreciation and thanks to those public-spirited citizens, who wisely acquired the above property, and then disregarding any desire or opportunity for profit, turned it over to the town at the purchase price.

Took up Article 11.

Voted, at 5.55 p.m., That the town authorize the Selectmen and the School Committee to serve as a joint committee to select a suitable lot of land for municipal or town purposes in the district known as Shawsheen Village and make a report of their action at a special town meeting to be called not later than April 15, 1922, with a recommendation for an appropriation and for such further action as may be necessary.

Voted, at 5.58 p.m., To adjourn the meeting until 7.30 p.m.

Took up Article 12.

Voted, at 7.45 p.m., That the War Memorial Committee be continued on same conditions as before.

Took up Article 13.

Voted, at 7.47 p.m., That the town for the purpose of providing a suitable headquarters for a post of the American Legion, approve the leasing of a building or part of a building which shall be under the direction and control of such post subject to such regulations as the town may adopt, and that the town appropriate for the current year the sum of \$1500. therefor, as provided for in General Laws, Chapter 40, Section 9.

Took up Article 14.

Voted, at 7.50 p.m., That the town adopt changes in the voting precincts of the town as recommended by the Selectmen in the following statement filed with the Town Clerk.

VOTING PRECINCTS

SELECTMEN'S REPORT

In accordance with the vote of the town at a Special Meeting November 1st, 1921, that the Selectmen be requested to consider the need of establishing additional voting precincts, we have made changes in the present precincts in accordance with Section 7, Chapter 54 of the General Laws, and have divided the town into four (4) precincts and defined the limits and boundaries thereof as follows:

PRECINCT TWO:

Beginning at a point in the centre of Lowell Street where the same intersects the Tewksbury line and running thence along the centre line of said Lowell Street in an easterly direction to a point where Bellevue Road enters Lowell Street; thence continuing in the same direction easterly to a point about 300 ft. south of Lowell Street; thence in a straight line northeasterly to a point in Argilla Road; said point being about 400 ft. southerly from Lowell Street; thence easterly in a straight line to a point where Argilla Road enters Andover Street; thence in a southerly direction to a point where Porter Road enters Abbot Street; thence in a southeasterly direction to Ballardvale Road at a point about 800 ft. westerly from Sunset Rock Road; thence southerly in a

straight line to a point in Woburn Street where the Wilmington Line crosses the same; thence westerly and southerly following the Wilmington line to the Tewksbury line; thence westerly, northerly and westerly following the Tewksbury line to the point of beginning.

PRECINCT THREE:

Beginning at a point on Lowell Street where the Tewksbury line crosses the same at the northwesterly corner of Precinct Two; thence northwesterly along the Tewksbury line to the Merrimack River; thence following the Merrimack River in a general northeasterly direction to the Lawrence line; thence southerly along the Lawrence line to a corner; thence easterly along the Lawrence line to the Shawsheen River; thence following the Lawrence line and the North Andover line to a stone bound in Haverhill Street; thence southerly to a point in High Street where Burnham Road enters the same; thence westerly in a straight line to Stimpson's Bridge where Main Street crosses the Shawsheen River; thence in a southwesterly direction in a straight line to a point on Lincoln Street about 250 ft. southerly from Lowell Street; thence southwesterly to a point in Shawsheen Road about 300 ft. easterly from point where said Shawsheen Road enters Lowell Street; thence southerly to the northwesterly corner of Precinct Two; thence southwesterly and westerly following the northerly line of Precinct Two to point of beginning.

PRECINCT FOUR:

Beginning at a point in Woburn Street where the Wilmington line crosses the same at the southeasterly corner of Precinct Two; thence northeasterly and northerly along the easterly line of Precinct Two to a point in Andover Street where Argilla Road enters the same; thence northeasterly along Andover Street to a point where Central Street enters the same near Hartwell Abbott's Bridge; thence easterly and northerly along the centre of Central Street to School Street; thence along the centre of School Street to a point where Morton Street enters the same; thence easterly along the centre line of Morton Street to

the angle in the Street; thence continuing in the same direction to a point 250 ft. easterly from the house owned by Larkin; thence northeasterly in a straight line to a stone bound in Highland Road at the North Andover line; thence southeasterly following the North Andover line to the North Reading line; thence westerly and northwesterly following the North Reading and Wilmington lines to point of beginning.

PRECINCT ONE:

Bounded on the north by Precinct Three, on the south by Precinct Four, on the east by the town of North Andover, and on the west by Precinct Two.

There are 2070 legal voters in Precinct One, 427 in Precinct Two, 473 in Precinct Three and 521 in Precinct Four.

WALTER S. DONALD
CHARLES BOWMAN
ANDREW McTERNEN

Selectmen of Andover

Received and filed, February 25th, 1922

Attest:

GEORGE A. HIGGINS

Town Clerk

Took up Article 15.

Voted, at 8.39 p.m., That article be stricken from the warrant.

Took up Article 16.

Voted, at 8.42 p.m., That the town accept as a town way, as laid out by the Selectmen, the street now known as Magnolia Avenue extending from the junction of Corbett Street and Poor Street, and running northerly 1148 feet and 39 feet in width to land now owned by James Mulligan.

Took up Article 17.

Voted, at 8.48 p.m., That the town appropriate the sum of \$150. for the purpose of engraving into the Pilgrim Memorial Monument at Provincetown the name of the Town of Andover and the year of its incorporation.

Took up Article 18.

Voted, at 9.09 p.m., That the report be accepted and the committee asked to continue their services and report at Annual Town Meeting.

Took up Article 19.

Voted at 9.17 p.m., That the pay of the call firemen be fixed at \$125.00 per year and no one be employed as call fireman who is not at least 20 hours per day in town.

Took up Article 20.

Voted, at 9.19 p.m., That the taxes be collected by the Collector, that he receive a salary of \$1800.00 per year and that interest be charged at the rate of 6 per cent per annum from October 15th on all taxes remaining unpaid after November 1st.

Took up Article 21.

Voted, at 9.20 p.m., That the Town Treasurer, with the approval of the Selectmen, be and hereby is authorized to borrow money from time to time in anticipation of the revenue of the financial year beginning January 1st, 1922, and to issue a note or notes therefor, payable within one year, any debt or debts incurred under this vote to be paid from the revenue of said financial year.

Took up Article 22.

Voted, at 9.21 p.m., That all unexpended appropriations be turned into the treasury.

Took up Article 23.

Voted, at 9.23 p.m., That the report of the Town Officers be accepted.

Took up Article 24.

Voted, at 9.24 p.m., To raise by taxation \$287,000. and also an amount sufficient to meet the State and County taxes after deducting receipts from the State Income tax.

Took up Article 25.

Voted, at 9.25 p.m., That the Board of Public Works be requested to investigate the flowage of water in Rogers Brook and intersecting streams and report at the next annual town meeting some plan for preventing flooding of adjacent roads, sidewalks, land and cellars.

Voted, at 9.29 p.m., That the meeting be dissolved.

The foregoing is a true copy of the warrant and of the officers' return on the same, also a true record of the doings of the regular and adjourned meetings.

Attest:

GEORGE A. HIGGINS, *Town Clerk*

SPECIAL TOWN MEETING, APRIL 15, 1922
WARRANT

THE COMMONWEALTH OF MASSACHUSETTS

ESSEX, ss.: To either of the Constables of the Town of Andover: GREETING:

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in town affairs to meet and assemble at the Town House in said Andover, on Saturday, the Fifteenth day of April, 1922 at 7.30 o'clock p.m., to act on the following articles:

Article 1. — To hear and act upon the report of the joint committee authorized by the annual town meeting to select a suitable lot of land for municipal or town purposes in the district known as Shawsheen Village, to make an appropriation, if necessary, or take such further action as may be deemed expedient.

Article 2. — To see if the town will appropriate the sum of \$1200. in addition to the amount already appropriated for the Police Department for the purpose of paying the expenses of a day off for regular patrolmen and for the purchase of a motorcycle for the new traffic officer.

Article 3. — To see if the town will vote to instruct the Selectmen to release a certain right of way for the maintenance of drainage pipes over the premises of Albert L. Hall and Clyde A. White, located on the southerly side of Park Street, in said town, on petition of Raymond L. Buchan and others.

Article 4. — To act on any other business that may legally come before the meeting.

And you are directed to serve this warrant by posting attested copies and publication thereof seven days at least before the time of said meeting as directed by the By-Laws of the town.

Hereof fail not and make return of this warrant with your doings thereon at the time and place of said meeting.

Given under our hands this sixth day of April, A.D. 1922.

WALTER S. DONALD
CHARLES BOWMAN
ANDREW McTERNEN

Selectmen of Andover

ANDOVER, MASS., April 15, 1922

ESSEX, SS.

Pursuant to the foregoing warrant, I, the subscriber, one of the Constables of the Town of Andover, have notified the inhabitants of said town to meet at the time and place and for the purposes stated in said warrant by posting a true and attested copy of the same on the Town House, on each schoolhouse and in no less than five other public places, where bills and notices are usually posted, and by publication in the Andover Townsman. Said warrants have been posted and published seven days.

FRANK M. SMITH

Constable

At a legal meeting of the inhabitants of the Town of Andover qualified to vote in town affairs convened in the Town House in said Andover, on Saturday, the Fifteenth day of April, 1922 at 7.30 o'clock in the evening, agreeably to the requirements of the foregoing warrant, Moderator Alfred L. Ripley presided and read the warrant.

Took up Article 1.

Voted, at 7.43 p.m., To accept and adopt the report of the joint committee authorized by the Annual Town Meeting to select a suitable lot of land for municipal or town purposes in Shawsheen Village. The report was as follows:

In accordance with the vote at the recent annual town meeting the selectmen and school committee organized, with Mr. Walter Donald as chairman, as a joint committee to select a schoolhouse lot in Shawsheen Village, determine its value and report at a

special town meeting to be held not later than April 15, 1922. Several meetings of this committee have been held and a thorough survey of the situation has been made.

The first consideration of the probable increase, due to the contemplated rapid development of the Village, in the number of children, whose accommodation will require a very large building or a group of buildings, also the conviction that a modern school building needs ample play-grounds and athletic facilities, led immediately to the conclusion that the site of the present building is insufficient to care for the future needs and that it would be a wise policy for the town to secure at least ten acres of land in the vicinity of the present center of school population.

The present center of school population was found to be in the vicinity of the junction of North Main Street and Warwick Street. Careful consideration given the prospective development of the Village on both sides of Main Street showed that the future would probably bring little, if any, change in the distribution of the population. Proximity to the railroad, the line of the Eastern Massachusetts Street Railway Company and the thoroughfares over which there is heavy traffic, was unanimously agreed upon as a serious and ever threatening danger to the safety and even the lives of the children and, therefore, as far as possible to be avoided. Drainage and grading, two extremely important factors in the location of school lots, were also discussed and due consideration was given to the splendid type of buildings already exemplified in the present development.

As a result of these deliberations the joint committee has, after a thorough survey of the Village, arrived at the conclusion that the most suitable lot which would fulfill the above conditions is located at the corner formed by the junction of Poor Street and Warwick Street Extension. Representatives of the committee interviewed the owners of this property, whom they found unwilling to set prices. The committee's unwillingness at the present time to recommend the seizure of land, also the will of the town as expressed by its vote on the matter at the annual town meeting, and the present impossibility of making a purchase, brought the situation to a dead-lock, and no land can be secured until there have been further negotiations. And the committee

therefore recommend that they be continued in power to report at some future town meeting.

Took up Article 2.

Voted, at 7.45 p.m., To appropriate the sum of \$1200. for the Police Department for the purpose of paying the expenses of a day off for regular patrolmen and for the purchase of a motorcycle for the new traffic officer. It was also voted that it was the sense of the meeting that the Selectmen give further consideration to the matter of time off for the police and report at the next annual town meeting.

Took up Article 3.

Voted, at 7.50 p.m., That, in consideration of one dollar and other valuable consideration, the town instruct the Selectmen to release a certain right of way for the maintenance of drainage pipes over the premises of Albert L. Hall and Clyde A. White located on the southerly side of Park Street, in said town.

Took up Article 4.

Voted, at 7.51 p.m., That the meeting be dissolved.

The foregoing is a true copy of the warrant and of the Officers' return on the same, also a true record of the doings of the meeting.

Attest:

GEORGE A. HIGGINS, *Town Clerk*

SPECIAL TOWN MEETING, MAY 29, 1922
WARRANT

THE COMMONWEALTH OF MASSACHUSETTS

ESSEX, SS.: To either of the Constables of the Town of Andover, GREETING:

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in town affairs to meet and assemble at the Town House in said Andover, on Monday, the Twenty-ninth day of May, 1922, at 8 o'clock p.m., to act on the following articles:

Article 1. — To see if the town will vote to issue bonds or notes of the town in the aggregate amount of forty thousand (\$40,000.) dollars for the purpose of re-laying and extending its water mains and improving its water distribution facilities, as authorized by Chapter 308 Acts of 1922, on petition of the Board of Public Works.

Article 2. — To see if the town will authorize and direct the Board of Public Works to petition the Legislature of 1923 for authority to borrow \$150,000. outside the statutory limit of indebtedness, by bond issue or otherwise, for the following purposes: To construct and maintain a pipe line, in accordance with plans approved by the State Board of Health, for the purpose of disposing of the sewage of the Town of Andover, said pipe line to extend from Andover through the City of Lawrence to the Merrimack River, and to authorize the purchase or taking of land in said Andover and Lawrence necessary for said site and to award and pay damages for said purchases or takings, on petition of the Board of Public Works.

Article 3. — To see if the town will vote to extend the water main on Corbett Street a distance of 1500 ft., and appropriate the sum of \$4000. to pay for the same, on petition of Edward Topping and others.

Article 4. — To see if the town will appropriate the sum of \$1000. for the Brush Fire Department, in addition to the amount appropriated at the Annual Town Meeting, to pay for necessary expenses already incurred and for other charges during the balance of the year.

Article 5. — To see if the town will authorize the discontinuance of that part of Chapel Avenue extending from the easterly side of Bartlet Street to Salem Street, on petition of James C. Sawyer and others.

Article 6. — To see if the town will appropriate the sum of \$1800. to cover the expense of additional street lighting made necessary by the placing of wires underground on Main Street from Andover Square to Chapel Avenue, on petition of the Street Lighting Committee

Article 7. — To act on any other business that may legally come before the meeting.

And you are directed to serve this warrant by posting attested copies and publication thereof, seven days at least before the time of said meeting as directed by the By-Laws of the town.

Hereof fail not and make return of this warrant with your doings thereon, at the time and place of said meeting.

Given under our hands this Eighteenth day of May, A.D. 1922.

WALTER S. DONALD
CHARLES BOWMAN
ANDREW McTERNEN

Selectmen of Andover

ANDOVER, MASS., May 29, 1922

ESSEX, SS.

Pursuant to the foregoing warrant, I, the subscriber, one of the Constables of the Town of Andover, have notified the inhabitants of said town to meet at the time and place and for the purposes stated in said warrant by posting a true and attested copy of the same on the Town House, on each schoolhouse and in

no less than five other public places, where bills and notices are usually posted, and by publication in the Andover Townsman. Said warrants have been posted and published seven days.

FRANK M. SMITH,

Constable

At a legal meeting of the inhabitants of the Town of Andover qualified to vote in town affairs convened in the Town House in said Andover on Monday, the twenty-ninth day of May, 1922, at 8 o'clock in the evening agreeably to the requirements of the foregoing warrant, Moderator Alfred L. Ripley presided and read the warrant.

Took up Article 1.

Voted, at 8.16 p.m., That by virtue and in pursuance of Chapter 308, Acts of 1922, and for the purposes mentioned therein, viz.: for relaying and extending the town's water main and improving its water distribution facilities, the sum of forty thousand (\$40,000.) dollars be and hereby is appropriated and to raise said amount the Town Treasurer is hereby authorized to issue and sell bonds or notes of the town in said principal amount of forty thousand (\$40,000.) dollars. Said bonds or notes shall be denominated on the face thereof "Andover Water Loan, Act of 1922," shall be signed by the Treasurer and countersigned by a majority of the Board of Selectmen and of the Board of Public Works, shall bear interest at a rate not exceeding five (5) per cent per annum, payable semi-annually and be under the seal of the town. Said bonds or notes shall be dated July 1, 1922 and be payable \$4000. annually in the years 1923 to 1932 inclusive, so that the whole loan shall be payable by annual payments in not exceeding ten (10) years. Principal and interest of said bonds or notes shall be payable at such bank or trust company as the Treasurer may determine. Said bonds or notes may be sold at public or private sale at not less than their par value, shall be certified by a bank or trust company to be selected by the Treasurer and contain such recitals not inconsistent with legal requirements as the Treasurer may determine. Yeas 86, Nays 0. Also voted that from the proceeds of the above sale the Board of

Public Works is authorized and directed to make such changes in and extensions to the water system as it may deem expedient.

Took up Article 2.

Voted, at 9.36 p.m., To authorize and direct the Board of Public Works to petition the Legislature of 1923 for authority to borrow \$150,000. outside the statutory limit of indebtedness, by bond issue or otherwise for the purpose of constructing and maintaining a pipe line as may be approved by the State Board of Health, for the disposal of the sewage of the Town of Andover, said pipe line to extend from Andover through the City of Lawrence to the Merrimack River, or for constructing any other system of sewage disposal approved by the State Board of Health, and for any other legislation that may be necessary to carry out the provisions of this article.

Voted, at 9.39 p.m., That the Board of Public Works be directed to investigate the problem of the Town sewers, their location and discharge and to employ necessary expert advice and give public hearings thereon and for this purpose they be authorized to expend a sum not exceeding five thousand dollars.

Took up Article 3.

Voted, at 9.42 p.m., That the extension of the water main on Corbett Street be referred to the Board of Public Works.

Took up Article 4.

Voted, at 9.48 p.m., That the sum of \$1000. be appropriated for the Brush Fire Department, in addition to the amount appropriated at the Annual Town Meeting for expenses already incurred and other charges during the balance of the year.

Took up Article 5.

Voted, at 9.49 p.m., That all that portion of Chapel Avenue, a private way laid out by the Trustees of Phillips Academy and heretofore used by the public, extending from the easterly end of Bartlet Street, at its intersection with said Chapel Avenue, and between said Bartlet Street and Salem Street, be and the same is hereby discontinued.

Took up Article 6.

Voted, at 10.15 p.m., That the sum of \$600. be appropriated to cover the expense of additional street lighting made necessary and deemed advisable by the reconstruction of Main Street, said sum to be for the fiscal year ending December 31, 1922, and that it be the sense of the meeting that the system as proposed by the Street Lighting Committee be endorsed.

Took up Article 7.

Voted, at 10.17 p.m., That the Selectmen with the aid and advice of the Finance Committee be requested to take further steps looking to a relocation of street railway wires on Main Street and that any expense be taken from Miscellaneous appropriation, if such is available.

Voted, at 10.18 p.m., That the meeting be dissolved.

The foregoing is a true copy of the warrant and of the officers' return on the same, also a true record of the doings of the meeting.

Attest:

GEORGE A. HIGGINS

Town Clerk

SPECIAL TOWN MEETING, NOVEMBER 13, 1922

THE COMMONWEALTH OF MASSACHUSETTS

ESSEX, ss.: To either of the Constables of the Town of Andover,
GREETING:

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in town affairs to meet and assemble at the Town House in said Andover, on Monday, the thirteenth day of November, 1922, at 7.30 o'clock p.m., to act on the following articles:

Article 1. — To hear and act upon the report of the Joint Committee, of the School Committee and Selectmen, chosen to consider the question of a suitable site for a school building in Shawsheen Village.

Article 2. — To see if the town will accept the gift of the American Woolen Company of a plot of land of approximately five acres bounded by Corbett Road, Poor Street, Magnolia Avenue, Middle Street and Allen Street as set forth in the letter of William M. Wood, President, to the Board of Selectmen and School Committee, dated August 1, 1922, such plot to be used for school purposes, on petition of the School Committee and Selectmen.

Article 3. — To see if the town will authorize the School Committee to employ an architect to examine the lot and make preliminary plans for a school building thereon and appropriate a sum not exceeding one thousand dollars (\$1000.) therefor, on petition of the School Committee and the Selectmen.

Article 4. — To see if the town will vote to change the name of Warwick Street in the Shawsheen Village section of the town to "William Street," on petition of Granville K. Cutler and others.

Article 5. — To see if the town will authorize the Selectmen to have the buildings, recently purchased of the Cunningham heirs on Whittier Court, razed or otherwise disposed of.

Article 6. — To see if the town will vote to accept the offer of Leonidas Hamel of a strip of land ten (10) feet wide, running the entire length of the northeastern side of his land abutting the Filter Bed Road, so-called, a roadway 30 feet wide running from Haverhill Street to the Filter Bed Lot, so-called, and now owned by the Town. The forty (40) feet road thus created to be put into shape for a Town Road to be accepted as such, and appropriate a sum of money therefor. Said road to be known as Frye Road, on petition of Leonidas Hamel and others.

Article 7. — To see if the town will vote to authorize and instruct the Selectmen to set apart a strip of land fifty (50) feet in width on the extreme southeastern boundary of the land now owned by the town and known as the Filter Bed Lot. Said strip to run the entire distance from the wall of the B. & M. R. R. to the wall on land of Charlotte M. Hill, along the line of the land of Edward Fleming, Leonidas Hamel, and American Woolen Company. Said Charlotte M. Hill to donate the land to continue said way across her land to connect with the way on City of Lawrence land, and now running to Salem Turnpike, so-called. Said way thus laid out to be known as Den Rock Way, and to be put in condition as a street and so accepted as a street when the citizens in some future Town Meeting may decide, on petition of Leonidas Hamel and others.

Article 8. — To act on any other business that may legally come before the meeting.

And you are directed to serve this warrant by posting attested copies and publication thereof, seven days at least before the time of said meeting as directed by the By-Laws of the town.

Hereof fail not and make return of this warrant with your doings thereon, at the time and place of said meeting.

Given under our hands this second day of November, A.D. 1922.

WALTER S. DONALD
CHARLES BOWMAN
ANDREW McTERNEN

Selectmen of Andover

ANDOVER, November 13, 1922

ESSEX, ss.

Pursuant to the foregoing warrant, I, the subscriber, one of the Constables of the Town of Andover, have notified the inhabitants of said town to meet at the time and place and for the purposes stated in said warrant by posting a true and attested copy of the same on the Town House, on each schoolhouse and in no less than five other public places, where bills and notices are usually posted and by publication in the Andover Townsman. Said warrants have been posted and published seven days.

FRANK M. SMITH, *Constable*

At a legal meeting of the inhabitants of the Town of Andover qualified to vote in town affairs convened in the Town House in said Andover, on Monday the Thirteenth day of November, 1922 at 7.30 o'clock in the evening, agreeably to the requirements of the foregoing warrant, Moderator Alfred L. Ripley presided and read the warrant.

Before taking up Article 1 of the warrant, Moderator Alfred L. Ripley, with the consent of the meeting, referred feelingly to the deaths of two prominent citizens of the town, Hon. John N. Cole and Judge Charles U. Bell, and Dr. Alfred E. Stearns paid a splendid tribute to their activities in public and private affairs and reminded the citizens of the great loss sustained.

Took up Article 1.

Voted, at 7.58 p.m., To accept the report of the joint committee as read by the Chairman, Dr. E. C. Conroy.

Took up Article 2.

Voted, at 9.45 p.m., To accept the gift of the American Woolen Company of a plot of land of approximately five acres, bounded by Corbett Street, Poor Street, Magnolia Avenue, Middle Street and Allen Street as set forth in the letter of William M. Wood, President, to the Board of Selectmen and School Committee, dated August 1, 1922, such plot to be used for school purposes.

Took up Article 3.

Voted, at 9.50 p.m., To authorize the School Committee to employ an architect to examine the lot and make preliminary plans for a school building thereon and to appropriate a sum not exceeding one thousand dollars (\$1000.) therefor, and that the Town Treasurer, with the approval of the Selectmen, be authorized, if necessary, to borrow said sum on note of the town, the same to be paid from the tax levy of 1923.

Took up Article 4.

Voted, at 9.52 p.m., To change the name of Warwick Street in Shawsheen Village section of the town to "William Street."

Took up Article 5.

Voted, at 9.53 p.m., To authorize the Selectmen to have the buildings, recently purchased of the Cunningham heirs on Whittier Court, razed or otherwise disposed of.

Took up Articles 6 and 7.

Voted, at 9.55 p.m., That both articles be stricken from the warrant.

Voted, at 9.56 p.m., That the meeting be dissolved.

The foregoing is a true copy of the warrant and of the officers' return on the same, also a true record of the doings of the meeting.

Attest:

GEORGE A. HIGGINS,
Town Clerk

SELECTMEN'S REPORT

SCHOOLS

GENERAL EXPENSES

Salaries:

Superintendent	\$3800.00		
Attendance Officer	103.60		
Clerk	424.00		
		<hr/>	\$4327.60
Office and Miscellaneous	298.45	298.45	
		<hr/>	4626.05

EXPENSES OF INSTRUCTION

Supervisors:

Salaries	4128.16		
Traveling Expenses	73.00		
		<hr/>	4201.16

Teachers:

High	15640.81		
Elementary	47342.57		
		<hr/>	62983.38

Textbooks:

High	545.71		
Elementary	1391.08		
		<hr/>	1936.79

Supplies:

High	1151.03		
Elementary	1992.57		
		<hr/>	3143.60

<i>Amount carried forward</i>			<hr/>	\$76890.98
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EXPENSES OF OPERATION

<i>Amount brought forward</i>		\$76890.98
Janitors	7088.91	
Fuel	5808.11	
Miscellaneous	689.95	
	<u> </u>	13586.97

MAINTENANCE

Repairs	4653.26	
	<u> </u>	4653.26

AUXILIARY AGENCIES

Health	1425.15	
Transportation	5732.97	
	<u> </u>	7158.12

MISCELLANEOUS

Tuition	624.47	
Sundries	1295.40	
	<u> </u>	1919.87

NEW EQUIPMENT

New Equipment	414.75	414.75
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SUMMARY OF RECEIPTS AND EXPENDITURES

Appropriation	\$103420.00	
Receipts	1207.38	
	<u> </u>	104627.38
Total Expenditures		104623.95
		<u> </u>
Balance		3.43

TOWN OFFICERS

Appropriation, March 6, 1922	\$10000.00
Walter S. Donald, Chairman, Selectman and Assessor	\$900.000
Walter S. Donald, expenses	34.65
Charles Bowman, Selectman and Assessor	800.00
Andrew McTernen, Selectman and Assessor	800.00
George A. Higgins, Town Clerk	1200.00
George A. Higgins, Town Treasurer	1200.00
George A. Higgins, expenses	33.90
William B. Cheever, Tax Collector	1800.00
Edith P. Sellars, Clerk	1118.00
William C. Crowley, Sealer, weights and measures	222.54
Joseph I. Pitman, Building Inspector	499.92
Daniel J. Murphy, Town Counsel	500.00
Walter H. Coleman, Auditor	75.00
John Robertson, Auditor	75.00
Harry Sellars, Auditor	100.00
Smart & Flagg, Agents, Surety Bonds	180.00
Lilla D. Stott, probate and real estate returns	74.80
C. M. Hewes, clerical work	38.10
H. C. Higgins, clerical work	25.00
Board of Assessors, expenses	25.00
F. & E. Check Writer Sales Co., check protector	23.00
Auto List Pub. Co., auto list	12.00
Bank & Office Equipment Co., cabinet	37.75
Banker & Tradesman, subscription	7.00
Charles F. Emerson, auto hire	20.00
<i>Amount carried forward</i>	\$9823.66

<i>Amount brought forward</i>	\$9823.66	\$10000.00
Division of Accounts, certif. of notes	22.00	
Walter J. Morrissey, auto hire	35.50	
New England Tel. & Tel. Co.	4.35	
J. H. McDonald, P.M., envelopes	2.18	
M. J. Doyle Transportation Co.	1.00	
	<hr/>	
Total expenditure	\$ 9866.69	
Balance	133.31	
	<hr/>	<hr/>
	\$10000.00	\$10000.00

TOWN HOUSE

Appropriation, March 6, 1922	\$3000.00
George W. Mears, Janitor	\$840.00
Lawrence Gas Co.,	345.23
C. A. Hill & Co., electrical supplies	95.14
Andover Coal Co., fuel	130.35
B. L. McDonald Co., fuel	304.76
M. T. Walsh, plumbing repairs	157.68
Board of Public Works	102.77
Buchan & McNally, repairs	63.17
James Smith, labor	71.10
James Holt, painting	56.60
David M. May, police duty	73.50
Walter I. Morse, hardware	46.53
Gray and Kendall, repairs	54.26
William C. Brown, labor	37.00
H. I. Dallman Co., duster, brushes	24.65
Peoples' Ice Co., ice	12.00
Energy Electric Co., electric bulbs	15.00
Charles F. Emerson, carting	15.50
Cheshire Chemical Co., dust void	9.00
Fire Department, use of horses	14.40
John K. Tuohy, luster rite	10.00
Cornelius Eldred, labor	8.10
Royal Murphy, labor	3.60
John Madden, labor	2.25
Patrick Reilly, labor	2.25
Annie F. Brown, laundry	3.00
John Ferguson, repairing clock	3.00
Beach Soap Co., soap	6.06
W. H. Sylvester, tuning piano	5.00
<i>Amount carried forward</i>	<i>\$2511.90</i>

<i>Amount brought forward</i>	\$2511.90	\$3000.00
Inez E. Thorning, labor	2.00	
Charles N. Smart, ventilators	17.50	
J. E. Pitman, repairs	23.05	
Cudahy Packing Co., soap	9.15	
Daniel P. Webster, police duty	42.50	
Albert W. Lowe, germicide	2.00	
Monument Mills, supplies	16.50	
Badger Fire Extinguisher Co., 3 extin- guishers	40.50	
Bank & Office Equip. Co., 2 steel cases	9.00	
C. S. Buchan, telephone table	6.00	
Charles J. Francis, sundries	2.40	
J. W. Richardson, repairs	2.96	
Boston & Lawrence Dispatch, freight	1.48	
Frank G. Emery, disinfectant	3.00	
H. L. Hiland, sweeper	3.25	
Co-operative Grocery store, ammonia	1.06	
Theo. Muise, repairing flag	1.50	
E. T. Hethrington, salt	.75	
Anderson & Bowman, scraper	.50	
	<hr/>	
Total expenditure	\$2697.00	
Balance	303.00	
	<hr/>	
	\$3000.00	\$3000.00
		<hr/>

FIRE DEPARTMENT

Appropriation, March 6, 1922		\$23000.00
Earnings Dept. teams		1470.05
Salaries, Engineers	\$800.00	
Wages, permanent men	11369.26	
Wages, call men	2805.00	
Wages, fire alarm	408.60	
Horses and care of same	1063.35	
Equipment and repairs	2486.58	
Fuel and Light	928.88	
Maintenance of buildings and grounds	1163.94	
Fire Alarm	2254.69	
Miscellaneous Expenses	687.40	
	<hr/>	
Total expenditures	\$23967.70	
Balance	502.35	
	<hr/>	
	\$24470.05	\$24470.05

BRUSH FIRES

Appropriation, March 6, 1922		\$600.00	
Special Appropriation		1000.00	
Pay Rolls	\$1465.50		
Walter I. Morse, shovels	32.40		
Lunches	35.21		
	<hr/>		
Total expenditures	1533.11		
Balance	66.89		
	<hr/>		
	\$1600.00	\$1600.00	

POLICE DEPARTMENT

Appropriation, March 6, 1922		\$11000.00
Special Appropriation		1200.00
Salary, Chief	\$1872.00	
Pay Roll — patrolmen	7629.86	
Wages, Specials	909.09	
Automobile hire	556.00	
Equipment and repairs	519.20	
Telephones	143.24	
Motorcycle	604.50	
Light	55.57	
Drowning accident	80.00	
Miscellaneous	236.69	
	<hr/>	
Total expenditure	12606.15	
Overdrawn		406.15
	<hr/>	<hr/>
	\$12606.15	\$12606.15

BOARD OF HEALTH

Appropriation, March 6, 1922		\$3300.00
Lotta Johnson, salary	\$1500.00	
Lotta Johnson, use of car	200.00	
Lotta Johnson, inspector of meat	200.00	
Charles H. Newton, Animal Inspector	202.50	
Charles H. Newton, use of horse and team	121.50	
Joseph Nolan, Plumbing Inspector	318.00	
John S. Buchan, Assistant Plumbing Inspector	20.00	
Dr. Charles E. Abbott, salary	75.00	
Dr. Charles E. Abbott, fumigation	93.00	
Franklin H. Stacey, salary	50.00	
Franklin H. Stacey, fumigation & supplies	174.33	
B. T. Haynes, salary	50.00	
B. T. Haynes, fumigation	3.00	
Essex Sanatorium, board	308.60	
Lakeville Sanatorium, board	104.00	
Westfield Sanatorium, board	103.00	
J. H. Campion & Co., provisions	6.09	
The Andover Press, printing	47.65	
Removing contagious patient	15.60	
Albert W. Lowe, fumigators	4.17	
John Fraize, killing cats	7.00	
		<hr/>
Total expenditure	\$3603.44	
Overdrawn		303.44
		<hr/>
	\$3603.44	\$3603.44

PRINTING AND STATIONERY

Appropriation, March 6, 1922		\$2000.00
The Andover Press, advertising, printing and supplies	\$1621.27	
J. H. McDonald, P. M., stamped envelopes	171.47	
Hobbs & Warren, blanks	36.89	
Adams, Cushing & Foster, record books	26.75	
Burroughs Adding Machine Co., services	12.02	
Library Bureau, cards	19.06	
Miller Bryant & Pierce Co., carbon paper	15.75	
Becker & Co., stationery	12.25	
Wright & Potter Printing Co., tax blanks	14.75	
H. M. Meserve & Co., blotters	8.90	
Birmingham Pen Co., pens	5.35	
P. B. Murphy, dog licenses	3.50	
James Barrie, stamp pads	3.00	
Commissioner of Public Safety, license books	2.55	
The Chicataubut Press, Veterans' abatement blanks	2.50	
A. W. Brownell Corp. tax tables	1.50	
Lubron Rubber Co., rubber bands	1.50	
	\$1959.01	
Total expenditure		
Balance	40.99	
	\$2000.00	\$2000.00

TREE WARDEN AND MOTH DEPARTMENT

TREE WARDEN

Edward H. Berry, tree warden	\$1307.81
Pay rolls	5882.73
Team hire	694.33
Truck hire	165.38
Trees, rock maples	70.00
Equipment	215.02
Repairs	90.95
Miscellaneous supplies	89.30
Edward H. Berry, expenses	18.59
Freight	28.23
Printing	20.50

Total	8582.84
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MOTH WORK

Appropriation, March 6, 1922		12900.00
Edward H. Berry, Supt.	\$294.54	
Pay Rolls	3421.19	
Equipment	431.41	
Rent	120.00	
Team hire	883.37	
Truck hire	51.00	
Supplies, lead, creosote	985.94	
Repairs	273.47	
Freight	15.08	
Printing	11 .00	
E. H. Berry, expenses	7.90	

Total	6494.90
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Receipts to balance	2177.74
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Total Expenditures	\$15077.74	\$15077.74
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SPRING GROVE CEMETERY

Appropriation March 13, 1922		\$2500.00
Sale of lots		479.00
Care of lots		1026.00
Perpetual care		410.00
Interments and use of tomb		482.00
Foundations		201.87
Sundries, sale of wood, mowers, etc.		35.00
Int. on deposits		13.27
Pay rolls	\$3711.50	
Board of Public Works, pipe & water	126.24	
Edith P. Sellars, Clerk	100.00	
John F. McDonough, cinders	150.50	
Elmer F. Conkey, horse & team	309.50	
Walter I. Morse, hardware	35.81	
Walter I. Morse, power lawn mower	227.30	
J. H. Playdon, plants	34.90	
C. S. Buchan, canvas cover	25.00	
Buchan & McNally, drain tile & supplies	43.40	
Reade Mfg. Co., herbicide	36.66	
Boston Pipe & Fittings Co., pipe	87.51	
R. S. Wilson, tractor work	15.00	
Frank E. Dodge, cement	17.70	
Warren F. Howe, cleaning stones	39.00	
Philip L. Hardy, cement	18.00	
John Shea, seed	12.75	
American Vault Works, markers	14.52	
Anderson & Bowman, repairing frills	14.55	
J. E. Pitman, labor & supplies	25.12	
George D. Millett, plants	5.00	
Gray and Kendall, filing saw	2.15	
<i>Amount carried forward</i>	<hr/> \$5052.11	<hr/> \$5147.14

<i>Amount brought forward</i>	\$5052.11	\$5147.14
George Seymour, fuse	2.50	
F. A. Swanton, stamps	9.00	
Holland Construction Co., dynamite	1.25	
John L. Morrison, repairing plow	8.50	
B. & M. R.R., freight	5.87	
The Andover Press, record cards	10.50	
Allied Arts Pub. Co., subscription	8.00	
E. W. Pitman Co., land tile	5.50	
Balance	43.91	
	<hr/>	<hr/>
	\$5147.14	\$5147.14

INSURANCE

Appropriation, March 6, 1922		\$3000.00	
Appropriation, Workmen's Compensation			2500.00
Smart & Flagg, Agents	\$2928.43		
Merrimack Mut. Fire Ins. Co.	1651.06		
		<hr/>	
Total expenditure	\$4579.49		
Balance	920.51		
		<hr/>	<hr/>
	\$5500.00		\$5500.00

HAY SCALES

Appropriation, March 6, 1922		\$125.00	
Receipts			50.00
William C. Brown, weigher	\$100.00		
Balance	75.00		
		<hr/>	<hr/>
	\$175.00		\$175.00

STREET LIGHTING

Appropriation, March 6, 1922		\$8200.00	
Special Appropriation			600.00
Lawrence Gas Company	\$8100.42		
Balance	699.58		
		<hr/>	<hr/>
	\$8800.00		\$8800.00

SEWER SINKING FUND

Appropriation, March 6, 1922		\$1000.00
William D. McIntyre, Treas. Sink. Fund	\$1000.00	
	<hr/>	<hr/>
	\$1000.00	\$1000.00

STATE TAX AND HIGHWAY TAX

Andover's proportion of State Tax		\$24000.00
Andover's proportion of Highway Tax		2738.88
Bank Tax		2370.06
Civilian War Poll Tax		7452.00
Bank Tax, Equalization claims		38.86
Corporation Tax, Equalization claims		301.88
Treasurer of Commonwealth	\$36901.68	
	<hr/>	<hr/>
	\$36901.68	\$36901.68

COUNTY TAX

Andover's proportion of County Tax		\$19151.19
Walter P. Babb, County Treas.	\$19151.19	
	<hr/>	<hr/>
	19151.19	19151.19

MEMORIAL HALL LIBRARY

Appropriation, March 6, 1922		\$3000.00
Frederic S. Boutwell, Treas.	\$3000.00	
	<hr/>	<hr/>
	\$3000.00	\$3000.00

DOG TAX

Received from County Treasurer		\$494.60
Paid F. S. Boutwell, Treas. Memorial Hall	\$494.60	
	<hr/>	<hr/>
	\$494.60	\$494.60

MEMORIAL DAY

Appropriation, March 6, 1922		\$550.00
Charles U. Bell, Quartermaster	\$550.00	
	<hr/>	<hr/>
	\$550.00	\$550.00

POST 99, G. A. R.

Appropriation, March 6, 1922		\$100.00
Charles U. Bell, Quartermaster	\$100.00	
	<hr/>	<hr/>
	\$100.00	\$100.00

RETIREMENT OF VETERANS

Appropriation, March 6, 1922		\$300.00
Paid to Veteran	\$300.00	
	<hr/>	<hr/>
	\$300.00	\$300.00

PUBLIC DUMP

Appropriation, March 6, 1922		\$75.00
Olof Benson, Keeper	\$75.00	
	<hr/>	<hr/>
	\$75.00	\$75.00

INTEREST

Appropriation, March 6, 1922		\$14000.00
Interest received on deposits		1240.09
Paid 162 High School Bond coupons	\$3240.00	
Paid 75 Sewer Bond coupons	1900.00	
Paid 149 Sewer Bond coupons	2980.00	
Paid 30 Shawsheen Bridge coupons	593.76	
Interest on revenue notes	5411.05	
	<hr/>	
Total expenditure	14124.81	
Balance	1115.28	
	<hr/>	<hr/>
	\$15240.09	\$15240.09

NOTES GIVEN

Andover National Bank, Notes 27-28, Rate	\$4.40	\$20000.00
Andover National Bank, Note 29	" 4.35	25000.00
Andover National Bank, Note 30	" 4.20	100000.00
Andover National Bank, Notes 31-36	" 3.92	100000.00
Andover National Bank, Notes 37-39	" 3.57	50000.00
		<hr/>
		\$295000.00

NOTES PAID

Andover National Bank	\$295000.00
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REDEMPTION OF BONDS

Appropriation, March 6, 1922		\$15500.00
Six High School Bonds	\$6000.00	
Seven Sewer Bonds	7000.00	
Shawsheen Bridge Bonds	2500.00	
		<hr/>
		\$15500.00 \$15500.00

ANDOVER POST NO. 8, AMERICAN LEGION

Appropriation, March 6, 1922		\$1500.00
John L. Dugan, Treasurer	\$528.28	
Balance	971.72	
		<hr/>
		\$1500.00 \$1500.00

SOLDIERS' MEMORIAL COMMITTEE

Balance, Jan. 1, 1922		\$2000.00
John Nolen, Landscape architect	\$800.00	
Balance	1200.00	
	<hr/>	<hr/>
	\$2000.00	\$2000.00

PILGRIM MEMORIAL TABLET

Appropriation, March 6, 1922		\$150.00
Theodore S. Nickerson, engraving	\$120.00	
Balance	30.00	
	<hr/>	<hr/>
	\$150.00	\$150.00

WAR MEMORIAL BOOK

Balance, Jan. 1, 1922		\$66.90
J. H. McDonald, P.M., postage	\$2.81	
C. H. Newman, photographs	3.00	
	<hr/>	
Total expenditure	5.81	
Balance	61.09	
	<hr/>	<hr/>
	\$66.90	\$66.90

MISCELLANEOUS

Appropriation, March 6, 1922	\$1200.00
J. E. Pitman, building inspector	200.00
J. E. Pitman, repairs	9.18
Herbert Clarke, repairs	206.60
W. J. Morrissey, auto hire	51.25
Board of Public Works, water	13.31
New England Tel. & Tel. Co.	14.95
Alvah P. Wright, field driver	25.00
C. W. Holland, damage to auto	106.30
J. H. Playdon, flowers	10.00
William F. Gledhill, fish warden	10.00
W. & L. E. Gurley, sealer's supplies	48.66
H. M. Meserve & Co. sealer's supplies	11.45
American Railway Express Co., freight	7.81
John A. Riley, supplies	6.75
Andover National Bank, deposit box	5.00
Samson Murdock Co., directory	5.00
Dr. P. J. Look, return of births	9.75
Dr. W. D. Walker, return of births	9.00
Dr. J. J. Daly, return of births	3.75
Dr. E. C. Conroy, return of births	.75
Dr. E. D. Lane, return of births	4.00
Dr. W. V. Grant, return of births	.75
Dr. C. W. Scott, return of birth	.25
Dr. T. J. Cullinane, return of birth	.25
Dr. F. A. Cregg, return of births	1.00
Dr. J. J. Deacy, return of births	.50
Dr. W. R. Hoffman, return of births	.50
Dr. H. H. Nevers, return of births	.50
Everett M. Lundgren, return of deaths	18.50
<i>Amount carried forward</i>	<u>\$780.76</u>

<i>Amount brought forward</i>	\$780.76	\$1200.00
M. J. Mahoney, return of deaths	5.00	
E. L. Bennett, return of deaths	2.00	
J. J. Breen, return of deaths	.50	
Alfred J. Martel, return of deaths	.75	
Joseph H. Couture & Son, return of deaths	1.00	
Edgerley & Bessom, return of deaths	.50	
Lyle Brothers, batteries	.50	
Registry of deeds, recording	1.38	
	<hr/>	
Total expenditure	792.39	
Balance	407.61	
	<hr/>	
	\$1200.00	\$1200.00

OVERSEERS OF THE POOR

The Overseers of the Poor submit the following report for the year ending December 31, 1922.

At the last annual Town meeting it was voted to build a new Almshouse on the southerly end of Carmel reservation. The Selectmen were empowered to add two associate members to this building committee and Mrs. Fred A. Swanton and Perley F. Gilbert were chosen. After many unavoidable delays the home was completed and occupied on January 24, 1923.

In order to keep within the appropriation your committee were obliged to cut down the original plans and before we had finished found it would be absolutely essential to replace some of the things that we eliminated at first. The State Inspector also ordered some additions and these with other necessary changes will have to be provided for through an appropriation. We would also recommend a sufficient sum to build a barn and garage combined. We hope in the near future to be able to run the home at less expense as everything is very convenient. The inmates show satisfaction and pleasure in their new home. The Outside Relief continues to be about the same from year to year. The present matron, Mrs. Fred A. Swanton, is an assurance that the home and the inmates will be well cared for under her wise and efficient management.

WALTER S. DONALD
CHARLES BOWMAN
ANDREW McTERNEN

Overseers of the Poor

ALMSHOUSE EXPENSES

Appropriation, March 6, 1922		\$6000.00
Receipts		619.03
Mrs. F. A. Swanton, matron	875.00	
Wages, employees	1404.00	
Groceries and provisions	2073.53	
Hay and grain	290.43	
Fuel and light	930.71	
Clothing and supplies	215.21	
Equipment	285.82	
Maintenance, buildings and grounds	110.28	
Medicine and medical aid	106.18	
Town physician	100.00	
Water	50.44	
Telephone	10.45	
Funeral expenses	100.00	
Miscellaneous	161.03	
	<hr/>	
Total expenditure	6713.08	
Overdrawn		94.05
	<hr/>	
	\$6713.08	\$6713.08

SOLDIERS' RELIEF

Appropriation, March 6, 1922		\$1500.00
Total expenditure	\$1441.05	
Balance	58.95	
	<hr/>	<hr/>
	\$1500.00	\$1500.00

STATE AID

Appropriation, March 6, 1922		\$1000.00
Total expenditure	\$516.00	
Balance	484.00	
	<hr/>	<hr/>
	\$1000.00	\$1000.00

MILITARY AID

No appropriation		
Total expenditure	\$75.00	
Overdrawn		\$75.00
	<hr/>	<hr/>
	\$75.00	\$75.00

NEW ALMSHOUSE

Appropriations		40300.00
Interest on Deposits		1028.87
E. W. Pitman Co., contract	\$28937.00	
W. H. Welch Co., plumbing and heating	5573.66	
C. A. Hill, electrical work	900.29	
Perley F. Gilbert, architect	2167.83	
Board of Public Works	504.80	
M. McDonough Co., grading	636.24	
McCray Refrigerator Co.	290.72	
E. F. Conkey, grading	150.00	
B. L. McDonald, coal	199.30	
Emil M. Teichert Co., papering	115.00	
Frank E. Dodge, cement work	180.00	
Stedman Products Co., Rubber flooring	831.00	
C. S. Buchan, linoleum	644.35	
A. M. Colby, lettering	8.00	
Dana W. Clark, engineering work	36.00	
Boston & Maine R.R., freight	9.28	
Andover Townsman, advertising	3.60	
Lawrence Eagle, advertising	12.00	
Telegram Publishing Co., advertising	12.00	
W. J. Morrissey, auto hire	30.00	
Andrew McTernan, expenses	5.00	
	41246.07	
Total expenditure		
Balance	82.80	
	\$41328.87	\$41328.87

OUTSIDE RELIEF

Appropriation, March 6, 1922			\$5000.00
Paid out of Almshouse		\$3540.96	
Paid other cities and towns		891.69	
Paid account of cities and towns		29.21	
Paid State		368.28	
Paid account of State		1133.41	
		<hr/>	
Total expenditure		5963.28	
Due from State	\$1133.41		
Due from cities	29.21		
	<hr/>	1162.62	
		<hr/>	
Net expenditure		4800.66	
Balance		199.34	
		<hr/>	
		\$5000.00	\$5000.00

AIDING MOTHERS WITH DEPENDENT CHILDREN

Appropriation, March 6, 1922			\$2500.00
Town cases		3057.13	
Paid other cities and towns		291.99	
Paid account other towns		1475.50	
		<hr/>	
Total expenditure		4824.62	
Due from towns	485.34		
Due from State	994.13		
Received from State	499.54		
Received from towns	539.67		
	<hr/>	2518.68	
		<hr/>	
Net expenditure		2305.94	
Balance		194.06	
		<hr/>	
		\$2500.00	\$2500.00

CASH REPORT OF ANDOVER TOWN FARM

Received for board from H. F. Swanton	\$125.00	
Received for board from L. E. Sanborn	\$242.00	
Received for farm tools	115.00	
Received for harnesses	20.00	
Received for pork	47.40	
Received for hay	69.63	
	<hr/>	
Total receipts	\$619.03	
Paid Town Treasurer to balance		\$619.03

STATISTICS OF ANDOVER TOWN FARM

Number of inmates January 1, 1922	9
Number admitted during year	4
Number sent to Danvers	1
Number of deaths	2
Number of inmates January 1, 1923	10
Number between 60 and 70 years of age	5
Number between 70 and 80 years of age	3
Number between 80 and 90 years of age	2

ASSESSORS' REPORT

We herewith submit our annual report:

Number of males assessed 2484.

Personal estate \$2616195.00

Real estate 9349375.00

\$11965570.00

Poll tax \$12420.00

Tax on personal estate 73253.46

Tax on real estate 261782.50

Rate of taxation per \$1000 — \$28.00

\$347455.96

Number of

Horses assessed 463

Cows assessed 989

Neat cattle assessed 214

Sheep assessed 10

Swine assessed 90

Fowl assessed 16752

Dwellings assessed 1922

Acres of land assessed 17807

WALTER S. DONALD

CHARLES BOWMAN

ANDREW McTERNEN

Assessors of Andover

REPORT OF TREE WARDEN

This has been a hard year for the Tree Department, but the situation has been well taken care of and the trees in the residential section of the town are in good condition.

We have done about fifteen miles of roadside cutting and have many miles to do. The work of cutting broken limbs and overhanging brush must be done in order to insure the safety of the public.

There is also a lot of work to be done on the trees in the outlying districts.

In order to carry on the work of this department. I ask that the sum of \$6000.00 be appropriated.

Respectfully submitted,

EDWARD H. BERRY

Tree Warden

REPORT OF MOTH SUPERINTENDENT

I herewith submit my report of the Moth Department for year ending December 31, 1922.

The moth situation in Andover certainly looks very favorable. There are at least fifty percent less moths than last year, and with the same earnest co-operation of the property owners we shall be able to keep them on the decrease.

In order to do the spraying thoroughly this year, we must have one new machine as one of the sprayers is beyond repair and one more season seems to be the limit for the other one.

To carry on the work of this department, I ask the sum of \$9000.00 be appropriated, one new sprayer to be bought out of this amount.

Respectfully submitted,

EDWARD H. BERRY

Moth Superintendent

POLICE DEPARTMENT

REPORT OF CHIEF

To the Board of Selectmen:

GENTLEMEN:—

I herewith submit the report of the Police Department for the year ending Dec. 31, 1922.

Whole number of arrests 216. Males 210 Females 6

OFFENSES FOR WHICH ARRESTS WERE MADE

Drunk	41
Drunk and disorderly	3
Violation of Town By-Law	11
Fishing on the Lord's Day	5
Violation Fish and Game Law	3
Violation Liquor Law	4
Violation of Motor Vehicle Law	94
Adultery	2
Insane	6
Larceny	4
Assault with dangerous weapon	3
Assault	8
Assault on wife	6
Wandered from home	1
Vagrancy	3
Manslaughter	3
On suspicion	1
Setting fires without permit	3
Operating automobile under the influence of liquor	7
Trespass	3
Having loaded revolver in possession	2
Breaking and Entering	1
Town Traffic Law	2

Lewdness	2
Violation Board of Health Law	1
Default	1
Obtaining money under false pretense	1
	<hr/>
Total	216

DISPOSITION OF CASES

Probation	1
On File	10
Discharged	22
Committed to Danvers Hospital	6
Committed to State Infirmary, Tewksbury,	3
Committed to House of Correction	6
Suspended sentence to House of Correction	6
Suspended sentence to State Farm	3
Returned to Parents	3
Continued for Sentence	7
Arrested for out of town officers	3
Held for Grand Jury	4

MISCELLANEOUS

Fines paid in lower court	\$2192.00
Fines paid in Superior Court	395.00
Value of Property stolen	1240.00
Value of Property recovered	810.00
Value of Police Equipment	1800.00
Dead bodies cared for	9
Doors left open and secured	98

SUPERIOR COURT FINDINGS

No Bill Found	4
Cases Pending	8
On Probation	4

Respectfully submitted

FRANK M. SMITH

Chief of Police

SPRING GROVE CEMETERY

The trustees of Spring Grove Cemetery submit the following report:—

The Trustees have held several meetings all of which have been well attended.

The cemetery has been kept up to the same high standard as heretofore.

About \$1600.00 has been spent on the East side. Several acres have been cleared and seeded, making many available lots.

Water has been piped up to the top of the hill and the meter changed. Over 400 feet of drain tiling has been laid.

The pines on both sides of the path have been cut down, this being necessary on account of many of them having died, and the others showed signs of "pine blister."

Shrubbery will be planted along both banks and thereby beautify what has been an ugly site.

The tomb has proved very satisfactory and has been used a great deal this winter.

WARREN L. JOHNSON, *Chairman*
WALTER I. MORSE
FRED E. CHEEVER
JOHN W. STARK
DANIEL H. POOR
DAVID R. LAWSON
EVERETT M. LUNDGREN

FRED E. CHEEVER, *Clerk of Board of Trustees.*

REPORT OF SUPERINTENDENT

To the Board of Trustees:

I herewith submit my annual report as Superintendent of Spring Grove Cemetery for the year ending December 31, 1922.

We have completed the road on the east side of the cemetery running from the main entrance to the lower end, so that it is now possible to drive around the entire grounds. The water-works have been extended nearly to the top of the hill, and a drain about 400 feet long has been put in to provide much-needed drainage.

Fifteen lots have been graded ready for immediate use, while we have seeded three acres to grass and have also broken up a large piece of ground for future development.

Respectfully submitted,

FRED A. SWANTON

Superintendent

STATISTICS OF SPRING GROVE CEMETERY

Number of lots sold as per last report	542
Number of lots sold in 1922	8
Total number of lots sold	550
Total number of single graves sold	197
Number of interments as per last report	1587
Number of interments in 1922	44
Total number of interments	1631

ANIMAL INSPECTOR'S REPORT

To the Board of Selectmen:—

GENTLEMEN:— I hereby submit my report for the time beginning November 15, 1921, and ending December 31, 1922.

Number of cattle inspected	1419
Number of stables inspected	151
Number of cows condemned because affected with tuberculosis	26
Number of stables disinfected	20
Interstate cattle identified and released from quarantine	104
Number of dogs placed in quarantine and held for observation after they had bitten persons	8
Number of dogs affected with rabies	1

Respectfully submitted,

CHARLES H. NEWTON

Inspector of Animals

REPORT OF BUILDING INSPECTOR

To the Board of Selectmen: —

GENTLEMEN: — I herewith submit my report of the Building Inspector's Department from December 31, 1921 to December 31, 1922.

Additions	21	Estimated cost	\$40450
Alterations	11	" "	19500
Dwellings	95	" "	622400
Two tenements	7	" "	44500
Garages	28	" "	16415
Camps	6	" "	4450
Stores	6	" "	19600
Henhouses	6	" "	1700
Barns	3	" "	2200
Dormitories	2	" "	86000
Creameries	1	" "	40000
Baseball cages	1	" "	50000
Office buildings	1	" "	250000
Recitation buildings	1	" "	200000
Memorial towers	1	" "	55000
Manufactories	2	" "	451300
Dyeing and finishing	1	" "	120000
Storehouses	1	" "	350000
Grandstands	1	" "	10500
Almshouses	1	" "	29000
Miscellaneous	4	" "	4200
<hr/>		<hr/>	
Total	200		\$2417215

Respectfully submitted

JOSEPH I. PITMAN

Building Inspector

SCHEDULE OF TOWN PROPERTY

Town House	\$47000.00	
Fixtures	3000.00	
12200 feet land	15900.00	
Engine house, storehouse and barn	25000.00	
12200 feet land	10000.00	
		<hr/>
		\$100900.00
Memorial Hall	30000.00	
22318 feet land	12000.00	
		<hr/>
		42000.00
Engine House, Ballardvale	6000.00	
Shed	200.00	
$\frac{1}{8}$ acre land	300.00	
		<hr/>
		6500.00
Punchard High School Buildings	125000.00	
4 acres land	8000.00	
		<hr/>
		133000.00
John Dove Schoolhouse	25000.00	
Heating plant, Jackson Schoolhouse	30000.00	
Stowe Schoolhouse	31000.00	
$3\frac{3}{4}$ acres land	6000.00	
		<hr/>
		92000.00
Bradlee Schoolhouse, Ballardvale	23000.00	
1 acre land	500.00	
		<hr/>
		23500.00
Richardson Schoolhouse	7000.00	
$\frac{1}{2}$ acre land	400.00	
		<hr/>
		7400.00
Indian Ridge Schoolhouse	17000.00	
1 acre land	800.00	
		<hr/>
		17800.00
		<hr/>
<i>Amount carried forward</i>		\$423100.00

<i>Amount brought forward</i>		\$423100.00
West Centre Schoolhouse	\$5000.00	
1/2 acre land	300.00	
		5300.00
North District Schoolhouse	5000.00	
1/2 acre land	150.00	
		5150.00
Bailey District Schoolhouse	3000.00	
1/2 acre land	100.00	
		3100.00
Osgood District Schoolhouse	2000.00	
1/2 acre land	100.00	
		2100.00
Old Schoolhouse, Ballardvale	4500.00	
1/4 acre land	500.00	
		5000.00
Almshouse, Carmel Street	40000.00	
3 1/2 acres land, Carmel Street	1000.00	
Personal Property at Almshouse	2100.00	
9 acres land, Burnham Road	2500.00	
		45600.00
9 acres land, Indian Ridge (gravel pit)	3000.00	
38 acres land, Carmel Woods Reservation	5700.00	
173751 feet land, Central Park	15000.00	
Band Stand	1000.00	
7 1/2 acres land, Playstead	6500.00	
20 1/2 acres land, Playstead, Ballardvale	1000.00	
41 1/2 acres land, Spring Grove Cemetery	10000.00	
Receiving tomb and toolhouse	6000.00	
		48200.00
Andover Board of Public Works		
Pipe lines and fountains	294000.00	
Pumping station and buildings	42500.00	
Coal shed	700.00	
3 acres land	800.00	
<i>Amount carried forward</i>		\$537550.00

<i>Amount brought forward</i>		\$537550.00
Two reservoirs	\$16000.00	
4½ acres land	2350.00	
28 acres land, Boston Ice Co., Haggetts Pond	2500.00	
	<hr/>	358850.00
Personal Property, Water Department		8500.00
Workshop, Lewis Street	1600.00	
Old Stable, Lewis Street	1000.00	
Barn and shed, Lewis Street	3000.00	
47467 feet land, Lewis Street	3000.00	
House, Engineer's	3500.00	
Pump house, east side of No. Main Street	5000.00	
Steam road roller	4000.00	
3 sleds	75.00	
1 auto	300.00	
3 horses	800.00	
Carts and harnesses	300.00	
Sewer System (30 acres Filter Beds)	333225.00	
	<hr/>	355800.00
Punchard School Fund		76854.28
Memorial Hall, Permanent Fund	46600.00	
Memorial Hall Library, John Cornell Fund	9371.32	
Memorial Hall Library, John Byers Fund	10000.00	
Memorial Hall Library, Book Funds	17400.00	
Memorial Hall Library and furniture	10000.00	
Memorial Hall Library, Edward Taylor Fund	500.00	
Memorial Hall Library, Isaac E. Giddings Fund	3000.00	
Memorial Hall Library, Woman's Christian Temperance Union	100.00	
Memorial Hall Library, Phillips Fund	3200.00	
	<hr/>	100171.32
<i>Amount carried forward</i>		\$1437725.60

<i>Amount brought forward</i>		\$1437725.60
Motor combination Chemical truck	\$5300.00	
Motor combination pump and truck	9000.00	
Light truck	800.00	
Hook and ladder	1000.00	
Two hose wagons	1000.00	
Hose sled	60.00	
Four horses	800.00	
Hay scales	350.00	
	<hr/>	18310.00
Weights and measures	350.00	
Fire alarm apparatus	8000.00	
4000 feet hose	2500.00	
	<hr/>	10850.00
Moth Department — Sprayers and tools		5000.00
		<hr/>
		\$1471885.60

TOWN OF ANDOVER — JURY LIST

Abbott, Newton S.	Carpenter	River Rd.
Armitage, Charles H.	Operative	123 Haverhill St.
Averill, George L.	Farmer	Reservation St.
Bailey, Henry B.	Farmer	High Plain Rd.
Bailey, Samuel H.	Farmer	Porter Rd.
Bancroft, William A.	Retired	Lowell Junc.
Bassett, Arthur W.	Clerk	Hidden Rd.
Baxter, George H.	Gardener	43 Lowell St.
Barrett, Patrick J.	Ins. Collector	88 Chestnut St.
Boutwell, Everett S.	Farmer	Pleasant St.
Burns, David F.	Signal Operator	Chester St.
Cates, A. Lincoln	Gardener	47 Whittier St.
Cannon, Gordon R.	Salesman	54 Salem St.
Carter, Donald W.	Manager	Balmoral St.
Carter, George M.	Farmer	High Plain Rd.
Clark, Herbert	Carpenter	Tewksbury St.
Chase, Herbert F.	Storekeeper	Summer St.
Cheever, Fred E.	Bookkeeper	Bancroft Rd.
Cole, Roscoe K.	Carpenter	115 Elm St.
Comeau, Arthur N.	Carpenter	Highland Rd.
Cole, Joseph F.	Retired	Hidden Rd.
Cutler, Howard A.	Clerk	9 Abbot St.
Dove, Percival	Retired	Salem St.
Doyle, Thomas J.	Fireman	Holt Rd.
Disbrow, George W.	Farmer	Chandler Rd.
Dunnells, George C.	Watchman	19 Haverhill St.
Fairweather, James D.	Gardener	15 Abbot St.
Flanders, Charles W.	Restaurateur	13 Chestnut St.
Fleming, Edward Jr.	Chauffeur	54 Haverhill St.
Flint, Edwin M.	Farmer	Pleasant St.
Flaherty, Michael J.	Spinner	River St.
Garland, George M.	Electrician	Prospect Hill Rd.

Gordon, Alexander	Belt Maker	82 Poor St.
Greenwood, Milton	Farmer	Hidden Rd.
Hannon, Patrick J.	Retired	Florence St.
Hannon, Laurence J.	Rubber Worker	63 High St.
Harrington, Daniel F.	Farmer	Osgood St.
Hill, Charles A.	Electrician	13 Chestnut St.
Hill, Paul	Farmer	Jenkins Rd.
Hill, Ira B.	Nigh Watchman	Lupine Rd.
Holt, George A.	Carpenter	8 Summer St.
Holt, John V.	Clerk	74 Bartlet St.
Holt, George E.	Clerk	66 Chestnut St.
Holland, Alfred C.	Printer	Lowell Junc.
Hovey, James H.	Carpenter	Main St.
Jaques, Robert	Farmer	River St.
Keane, Mark M.	Clerk	Moraine St.
Kendall, Frank H. E.	Carpenter	7 Chestnut St.
Kyle, James	Overseer	75 Elm St.
Lawson, John B.	Machinist	9 Chestnut St.
Lee, Harry F.	Farmer	Pleasant St.
Leslie, David C.	Retired	Red Spring Rd.
Lockhead, Robert	Rubber Worker	80 Summer St.
Lynch, Joseph P.	Switchman	Tewksbury St.
Mahoney, Timothy J.	Clerk	Whittier St.
May, George M.	Painter	Main St.
McDonald, Frank S.	P. O. Clerk	129 Chestnut St.
McGovern, Clarence F.	Renderer	North St.
McIntyre, William D.	Clerk	Tewksbury St.
Miller, George R.	Salesman	Center St.
Mosher, James R.	Clerk	Balmoral St.
Morrissey, William B.	Electrician	66 Poor St.
Nason, Harry C.	Carpenter	Clark Rd.
Newton, Charles M.	Poultry Business	Boutwell Rd.
Nolan, Joseph P.	Plumber	7 Cuba St.
Noyes, John L.	Farmer	Lovejoy Rd.
O'Connell, Walter J.	Clerk	81 Chestnut
O'Donnell, Hugh F.	Moulder	Center St.
O'Donnell, John A.	Switchman	Marland St.
O'Hara, Robert W.	Rubber Worker	Lincoln St.
Petrie, George B.	Janitor	Chickering Ct.

Pike, Warren G.	Farmer	Laurel Lane
Pitman, Joseph I.	Carpenter	17 Summer St.
Platt, Henry W.	Overseer	Center St.
Purcell, James F.	Baker	36 Elm St.
Reilly, Bernard J.	Gardener	79 Haverhill St.
Remmes, Joseph T.	Electrician	Missionary Lane
Rennie, George	Farmer	Argilla Rd.
Riley, John A.	Retired	Center St.
Riley, Joseph A.	Wool Sorter	Center St.
Robinson, William C.	Blacksmith	427 No. Main St.
Roggemann, Edward	Clerk	99 Elm St.
Scott, David M.	Warp Dresser	19 Avon St.
Shaw, George	Retired	Andover St.
Shaw, Irving R.	Wool Sorter	High St.
Sherry, Frank J.	Pattern Maker	Andover St.
Sherry, Richard	Moulder	Chester St.
Stott, Joseph E.	Clerk	High St.
Stewart, James	Retired	Red Spring Rd.
Taylor, Loren E.	Clerk	11 Washington Ave.
Todd, Henry	Clerk	60 Poor St.
Trow, Henry J.	Wool Sorter	River St.
Turner, Patrick	Polisher	Andover St.
Tuttle, Benjamin B.	Retired	Florence St.
Valentine, Franklin	Clerk	20 Elm St.
Walker, Salmond C.	Carpenter	Chester St.
Walker, George D.	Farmer	Lowell St.
Whitman, David O.	Rubber Worker	9 Pine St.
Woodhead, Edmund S.	Carpenter	Corbett St.

REPORT OF TAX COLLECTOR

To the Board of Assessors:—

The following is the Report of the Collector of Taxes for the year ending December 30, 1922.

1919

Amount as per warrant		\$378.28
Added to warrant		1.60
Interest		25.24
Collected taxes	\$189.55	
Interest	25.24	
Abated	190.33	
	<hr/>	<hr/>
	\$405.12	\$405.12

1920

Amount as per warrant		\$10622.06
Added to warrant		4.67
Moth Work		89.10
Interest		984.32
Collected taxes	\$9302.08	
Collected Moth Work	89.10	
Collected Interest	984.32	
Abated	520.56	
Uncollected	804.09	
	<hr/>	<hr/>
	\$11700.15	\$11700.15

1921

Amount as per warrant		\$41345.91
Added to warrant		16.47
Moth Work		289.68
Interest		1100.63
Collected Taxes	\$25906.92	
Collected Moth Work	289.68	
Collected Interest	1100.63	
Abated	392.73	
Uncollected	15062.73	
	\$42752.69	\$42752.69

1922

Amount as per warrant		\$347455.96
Added to warrant		122.64
Moth Work		3608.66
Interest		168.85
Amount collected	\$299349.10	
Moth work	3608.66	
Interest	168.85	
Abated	1474.00	
Uncollected	46755.50	
	\$351356.11	\$351356.11

SUMMARY COLLECTOR'S CASH ACCOUNT, 1922

AMOUNT COLLECTED AND PAID TO TOWN TREASURER

	<i>Taxes</i>	<i>Moth Work</i>	<i>Interest</i>	<i>Total</i>
1919	\$ 189.55		\$ 25.24	\$ 214.79
1920	9302.08	89.10	984.32	10375.50
1921	25906.92	289.68	1100.63	27297.23
1922	299349.10	3608.66	168.85	303126.61
Interest on Dep.			230.20	230.20
	\$334747.65	\$3987.44	\$2509.24	\$341244.33

CORNELL FUND

RECEIPTS

Amount of Fund		\$5000.00
Deposited in Savings Banks		5000.00
Balance from last year	\$52.01	
Income	245.00	
	<hr/>	297.01

EXPENDITURES

For coal and wood	\$152.26	
Cash on hand	144.75	
	<hr/>	\$297.01

JOHN C. ANGUS
CHARLES N. MARLAND
W. D. WALKER

Trustees

FIRE DEPARTMENT

To the Board of Selectmen of the Town of Andover.

GENTLEMEN:—I herewith submit the report of the Andover Fire Department from January 1, 1922 to December 31, 1922.

During this time the Department has answered 127 bell and 30 still alarms.

We have laid 11450 feet of 2½-inch hose, 1760 feet of ¾-inch hose, using 883 gallons of Chemical and 300 feet of ladders.

Value of buildings and contents where fires have occurred \$178,100: loss on buildings and contents \$24,462, mostly covered by insurance. The Department consists of one Combination Hose and Chemical, one Combination Hose, Chemical and Pump, one Hose Wagon, two Sleds, two Tip Carts, four sets Double Harness, one Horse-Drawn Ladder Truck, one Exercise Wagon, one Brush Fire Truck, 5000 feet 2½-inch Hose.

This year the batteries have been replaced with new batteries and rack.

The receipts of the Department for the past year were \$1,470.05. The appropriation was \$23,000, making a total of \$24,470.05.

The expenses of the year were \$23,967.70, leaving a balance of \$502.35.

As we cannot by law use the earnings of the Department, we recommend the sum of \$24,000. We also recommend the purchase of a new motor-driven Ladder Truck.

CHARLES F. EMERSON

Chief Engineer

BOARD OF HEALTH

The duties of the Board of Health for the past year have been on the whole of a routine nature. We have received about the ordinary number of complaints but far less than usual have been of an anonymous nature, which shows that the Public does not consider the work of the Board in a partisan spirit, but a Board which desires at all times to act in an impartial manner, its first object being the public welfare, and not the settlement of difficulties that are of a personal nature.

It is said that infant mortality is a fair index of health conditions in a community. If this be so, then Andover has reason to congratulate itself on the work accomplished by its Board of Health Nurse and its District Nurse.

The incidence of catarrhal diseases of an influenzal type during the Fall and Winter months has added greatly to the number of cases of pneumonia and other serious forms of illness, but feel that the work of the Board of Health in its effort to keep up good sanitary conditions has had an effect in lowering the mortality rate.

The question of garbage disposal is a serious one, and in so far as we are able to advise at this time remains an open question. We have had considerable correspondence with cities and towns in regard to the matter but have gained but little of particular value for the situation in our own town.

We call particular attention to the report of the active work of our nurse, and trust she may have the co-operation of our townspeople in the work which we are sure is of inestimable value to the town and of additional helpfulness to the Board.

We have used our best endeavors to further the betterment of sewerage conditions in the town as a whole and particularly in the Shawsheen district, and we trust that should the new plan

for direct entrance into the Merrimack river be passed by the Legislature it may be immediately adopted by the town.

We desire to tender our thanks to the Police Department for their help in maintaining quarantine and to the physicians of the town for their prompt return of vital statistics.

CHARLES E. ABBOTT, M.D.
FRANKLIN H. STACEY, Ph.C.
BANCROFT T. HAYNES

ACTING MILK INSPECTOR'S REPORT

To the Board of Health.

There having been no applications for the position, I have felt it my duty to continue as acting milk inspector. It has taken considerable time, but I feel that the work is very necessary and that some one should do it.

During the year I have examined 89 samples of milk and of these have tested 78 doubtful ones with the Babcock machine. My plan has been to first examine with the lactoscope and then run the sample if there was any doubt. This year I found more samples below standard than ever before. Night and morning samples were run on the mixed milk from some dairies and from individual cows, thereby showing where the fault was. This trouble was remedied by the owner adding cows which gave richer milk, thereby bringing the standard up. Found no samples of milk sold in Andover which were watered or contained preservatives.

In company with one of the state inspectors one dairy was visited where we found watered milk. As this milk was not sold or offered for sale in Andover the case was prosecuted in Lawrence and the man found guilty.

Paid 83 visits to barns where cows were kept and found conditions improved.

Respectfully submitted

FRANKLIN H. STACEY, Ph.C.

Acting Inspector

REPORT OF BOARD OF HEALTH NURSE, AGENT AND CLERK

To the Board of Health.

The past year has been in most respects a very satisfactory year as far as freedom from serious epidemics is concerned.

There have been 328 cases of contagious diseases reported, classified and compared with previous years as follows:

	1922	1921	1920
Influenza	125		171
Tuberculosis	11	10	18
Incephalitis Lethargica			1
Typhoid Fever		6	2
Scarlet Fever	15	36	8
Diphtheria	16	21	15
Chicken Pox	14	25	20
Whooping cough	75	2	17
Measles	44	358	31
Mumps	7	5	13
Suppurative Conjunctivitis		1	
Lobar pneumonia	14	4	
Tetanus			
Anterio Poliomyelitis	2	3	1
German Measles	1		
Septic Sore Throat	2		
Ophthalmia Neonatorum	1		
Gonorrhea	1		
	<hr style="width: 10%; margin: 5px auto;"/>		
	328		

DEATHS FROM CONTAGIOUS DISEASES

	1922	1921		1922	1921
Tuberculosis	5	6	Lobar Pneumonia	3	2
Typhoid Fever		1	Scarlet Fever		1
Tetanus		2	Diphtheria	3	
Measles		1			

It was most gratifying this year to know that, in spite of the fact that in 1921 there was the greatest number of typhoid cases for many years, we have had none this year, which shows the effect of careful oversight in regard to antiseptic treatment of patient and secretions.

During the year I made 1620 sick calls and many miscellaneous calls as follows:

Accident, emergency and obstetrical	17
Erysipelas	19
Carcinoma	1
Diphtheria cultures for diagnosis	42
Diphtheria cultures for release	9
Dressings	44
Gangrene	2

The most striking fact of the year was the decrease in the infant mortality. For many years Andover has had what would be considered, in view of the type of people and environment, a very high death rate among infants: in 1920 we had 25 deaths under one year, in 1921, 22, and this year 12, which places Andover in a very enviable position. I have made 214 child-welfare and prenatal visits.

I have found by inquiring that there has been a steady decrease in the number of cases of dysentery and diarrhoea in the town. This is no doubt due to several reasons; more sewers, better sanitary conditions on the premises, connections of sewers, and education as to hygiene and care.

Number of sanitary visits and inspections were 392 for the year. Have received during the year 216 complaints which have all been investigated. Many were well founded and the nuisances were abated. Several were clearly spite cases, while several were cases for civil action between the parties interested. In some cases it has been necessary to consult the town counsel for advice. Several complaints were investigated which were clearly offensive to the eye but could not be classified as detrimental to the public health.

In all cases, I have tried to settle by persuasion rather than by prosecution, but found it necessary to try one case in court. The party was given opportunity to abate the nuisance, which was done.

I wish to call attention to the fact that the pollution of any stream or body of water by depositing therein dead animals or decaying vegetable matter is a serious offence. At the time of the overflow of Stony Brook last spring many dead animals were removed from the water course after the water had subsided. Over two hundred complaints were received this year in regard to the collection or non-collection of garbage. I was unable to advise in any way except that all material should be buried or burned. In regard to the collection of garbage I have written the Boards of Health in many cities and towns and have not thus far received any information which would be of practical value to the town of Andover.

All communicable diseases must be reported to the local Board of Health. Any person concealing a contagious or infectious disease, that is reportable by law, will be prosecuted accordingly.

Respectfully submitted,

LOTTA JOHNSON, R.N.

INSPECTOR OF SLAUGHTERING

To the Board of Health.

GENTLEMEN:

During the past year I inspected and passed as suitable for food:

Cattle	1	Sheep	5
Calves	93	Hogs	112

Respectfully submitted,

LOTTA JOHNSON, R.N.

Inspector

TREASURER'S REPORT

FINANCIAL STATEMENT

Liabilities

Water Bonds, 4% (13000 due 1923)	\$59000.00	
Water Bonds, 3½% (3000 due 1923)	32000.00	
Water Bonds 4¾% (4000 due 1923)	40000.00	
Sewer Bonds 4% (5000 due 1923)	70000.00	
Sewer Bonds, 5% (2000 due 1923)	36000.00	
High School Loan, 4% (6000 due 1923)	75000.00	
Shawsheen Bridge Loan, 4¾% (2500 due 1923)	10000.00	
Main St. Loan 4½% (20000 due 1923)	100000.00	
	<hr/>	\$422000.00

Assets

Cash, General Fund	\$5424.42	
Cash, Water Loan	6882.97	
Cash, Special Sewer Survey	3437.66	
Cash, Main Street Loan	1140.29	
Cash, No. Main St., Appropriation	15000.00	
Cash, Soldiers' Memorial Committee	1200.00	
	<hr/>	33085.34
Uncollected taxes	62622.32	
Uncollected Moth Work	905.30	
	<hr/>	63527.62
Commonwealth, State Aid	516.00	
Commonwealth, Military Aid	75.00	
Commonwealth, Temporary Aid	1133.41	
	<hr/>	1724.41
		<hr/>
<i>Amount carried forward</i>		\$98337.37

<i>Amount brought forward</i>		\$98337.37
Cities, Temporary Aid	29.21	
Towns, Mothers' Aid	485.34	
Commonwealth, Mothers' Aid	994.13	
Sewer Assessments	11246.52	
Water Rates due January 1, 1923	8523.34	
Sinking Funds	50414.51	
	<hr/>	71693.05
Balance against Town		251969.58
		<hr/>
		\$422000.00

GEORGE A. HIGGINS, Treas., in

DR.

Balance Jan. 1, 1922, General Fund	\$20526.48
Balance Jan. 1, 1922, Town Farm Sale	30145.23
Balance Jan. 1, 1922, Water Loan	2707.38
Balance Jan. 1, 1922 Sewer Loan	2533.81
Balance Jan. 1, 1922, War Memorial Book	66.90
Balance Jan. 1, 1922, Town Farm Committee	300.00
Balance Jan. 1, 1922, Soldiers' Memorial Committee	2000.00
Commonwealth, Corporation Tax	23340.47
Commonwealth, Bank Tax	9954.76
Commonwealth, Income Tax, 1919	46.25
Commonwealth, Income Tax, 1920	323.75
Commonwealth, Income Tax, 1921	1942.50
Commonwealth, Income Tax, 1922	17665.63
Commonwealth, General School Fund	8711.42
Commonwealth, Civilian War Poll Tax	9.00
Commonwealth, Reimbursement Land Taxes	179.42
Commonwealth, Soldiers' Exemption	45.51
Commonwealth, Street Railway Tax	251.97
Commonwealth, School Tuition	719.73
Commonwealth, Industrial Schools	240.15
Commonwealth, Mothers' Aid	749.33
Commonwealth, Temporary Aid	318.40
Commonwealth, Public Works, Moth Work	85.43
Commonwealth, Hawkers' Licenses	112.00
Commonwealth, State Aid	558.00
Commonwealth, Military Aid	75.00
Essex County, Dog Tax	494.60
Essex County, Killing Dogs	41.00
Andover National Bank, Notes	275000.00
Collector's Department, Taxes	334747.65
Collector's Department, Interest on Taxes	2279.04
Collector's Department, Moth Work	3987.44
Collector's Department, Interest on Deposits	230.20
Board of Public Works, Water Rates	31831.38
Board of Public Works, Service Pipe	18495.48
Board of Public Works, Refund Water Dept.	.18
Board of Public Works, Highway Dept.	3041.55
Board of Public Works, Sidewalk Assessment	122.00
Board of Public Works, Main St.	304.74

Amount carried forward

\$794183.78

account with the town of Andover

CR.

Orders paid	
Town Officers	\$9866.69
Town House	2697.00
Police Department	12606.15
Fire Department	23967.70
Brush Fires	1533.11
Spring Grove Cemetery	5103.23
Almshouse Expenses	6713.08
New Almshouse	41246.07
Mother's Aid	4824.62
Relief Out	5963.28
Soldiers' Relief	1441.05
State Aid	516.00
Military Aid	75.00
Highway Department	63790.51
Main Street	99164.45
Tree Warden	8582.84
Moth Department	6494.90
Public Dump	75.00
Street Lighting	8100.42
Hay Scales	100.00
Sewer Department, Maintenance	3189.59
Sewer Department, Construction	8778.82
Sewer Department, House Connection	944.48
Special Sewer, Survey	1562.34
Sewer Sinking Funds	1000.00
Water Department, Maintenance	24545.98
Water Department, Construction	56131.89
Water Loan Bonds	16000.00
Water Loan Interest	4475.00
Water Sinking Funds	750.00
Schools	104623.95
Park	1193.54
Redemption of Sewer Bonds	7000.00
Redemption of High School Bonds	6000.00
Shawsheen Bridge Loan	2500.00
Interest	14124.81
Board of Health	3603.44

Amount carried forward

\$559284.94

GEORGE A. HIGGINS, Treas., in

DR.

<i>Amount brought forward</i>	\$794183.78
Sewer Department, Assessments	3410.46
Sewer Department, Interest on Assessments	20.14
Sewer Department, House Connections	1530.43
Town House, Rentals	640.50
Fire Department, Use of horses, etc.	1047.05
Fire Department, Fire Alarm Boxes	300.00
Fire Department, Sale of Engine	75.00
Fire Department, Liability Ins.	48.00
Almshouse	619.03
Towns, Mothers' Aid	810.67
Spring Grove Cemetery, Sale and Care of Lots	2647.14
Outside Relief, Reimbursement	473.50
Hay Scales	50.00
W. C. Crowley, Sealer's Fees	97.54
School Dept., Tuition and Supplies	247.50
George A. Higgins, Town Clerk's Fees	225.45
Old Schoolhouse, Ballardvale, Rents	250.00
Cunningham Property, Rent	6.00
Trial Justice Court, Fines	1180.50
Tree Warden's Dept.	260.00
Board of Health, Licenses	33.50
Board of Health, Town of Middleton	21.09
Phillips Academy, Street Lighting	230.00
Show Licenses	25.00
Peter Dugan, Cunningham Buildings	200.00
Auto Dealers, Licenses	62.50
Druggist License	1.00
Albert Hall & Clyde White, release	1.00
Sinking Fund, Water Bond Redemption	10000.00
Water Loan Bonds	40000.00
Water Loan Bonds, Premium and Interest	393.93
Main Street Loan	100000.00
Main Street Loan, Premium and Interest	962.50
Andover National Bank, Interest on Deposits	1240.09
Andover National Bank, Almshouse Fund	1028.87
Smart & Flagg, Cancelled Insurance	15.58

Total Receipts	\$962337.75
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account with the town of Andover

CR.

<i>Amount brought forward</i>	\$559284.94
Miscellaneous	792.39
Andover Post No. 8 American Legion	528.28
Memorial Hall Library	3000.00
Memorial Hall Library, Dog Tax	494.60
Retirement of Veterans	300.00
War Memorial Book	5.81
Memorial Day	550.00
Post 99, G. A. R.	100.00
Printing and Stationery	1959.01
Insurance	4579.49
Essex County Tuberculosis Hospital	1371.87
Election and Registration	1313.15
Cunningham Property	3000.00
Pilgrim Monument	120.00
Memorial Committee	800.00
County Tax	19151.19
Commonwealth, Bank Tax	2408.92
Commonwealth, Corp. Tax	301.88
Commonwealth, State Tax	24000.00
Commonwealth, Highway Tax	2738.88
Commonwealth, War Poll Tax	7452.00
Andover National Bank, Notes	295000.00
	<hr/>
Total expenditures	\$929252.41
Balance on hand Jan. 1, 1923	
General Fund	5424.42
Water Loan	6882.97
Special Sewer Survey	3437.66
Main St. Loan	1140.29
No. Main St. Appropriation	15000.00
Soldiers' Memorial Committee	1200.00
	<hr/>
	\$962337.75

Richardson Fund — Shawsheen Village School

DR.

Balance January 1, 1922	\$1447.33	
Andover Savings Bank, interest	73.24	
	<hr/>	\$1520.57

CR.

Deposit, Andover Savings Bank	\$1520.57	
	<hr/>	\$1520.57

Draper Fund — School

DR.

Balance January 1, 1922	\$1083.75	
Andover Savings Bank, interest	54.82	
	<hr/>	\$1138.57

CR.

Deposit, Andover Savings Bank	\$1138.57	\$1138.57
	<hr/>	\$1138.57

Edward Taylor Fund — Fuel

DR.

Balance January 1, 1922	\$301.60	
Andover Savings Bank, interest	15.24	
	<hr/>	\$316.84

CR.

Deposit, Andover Savings Bank	\$316.84	
	<hr/>	\$316.84

Varnum Lincoln Spelling Fund

DR.

Balance January 1, 1922	\$543.40	
Andover Savings Bank, interest	26.47	
	<hr/>	\$569.87

CR.

H. C. Sanborn, Supt. of Schools	\$20.00	
Deposit, Andover Savings Bank	549.87	
	<hr/>	\$569.87

Isaac Giddings Burial Ground Fund

DR.

Balance January 1, 1922	\$1000.00	
Andover Savings Bank, interest	50.62	
	<hr/>	\$1050.62

CR.

F. H. Foster, Treas., South Cemetery	50.62	
Deposit, Andover Savings Bank	1000.00	
	<hr/>	\$1050.62

Dr. Edward C. Conroy School Fund

DR.

Balance, January 1, 1922	\$250.00	
	<hr/>	\$250.00

CR.

Deposit, Andover Savings Bank	\$250.00	
	<hr/>	\$250.00

Cemetery Fund

PERPETUAL CARE

DR.

Balance, January 1, 1922	\$28003.87	
Andover Savings Bank, interest	1456.21	
Deposits for Perpetual Care	2275.00	
	<hr/>	\$31735.08

CR.

Spring Grove Cemetery, for care of lots	\$410.00	
Private Cemeteries, for care of lots	712.00	
Deposits, Andover Savings Bank	30613.08	
	<hr/>	\$31735.08

AUDITORS' CERTIFICATE

We have examined the accounts of the several town officers and find them correctly cast, with satisfactory vouchers for all payments.

The Town Treasurer has on deposit in Andover National Bank and cash on hand:

General Fund	\$5424.42
Water Loan	6882.97
Special Sewer Survey	3437.66
Main Street Loan	1140.29
No. Main Street Appropriation	15000.00
Soldier's Memorial Committee	1200.00
	<hr/>
	\$33085.34

JOHN S. ROBERTSON
WALTER H. COLEMAN
HARRY SELLARS

Auditors

PUNCHARD FREE SCHOOL

REV. CHARLES W. HENRY, *President*

HARRY H. NOYES, *Clerk and Treasurer*

REV. E. VICTOR BIGELOW MYRON E. GUTTERSON

REV. NEWMAN MATTHEWS FREDERIC S. BOUTWELL

EDMOND E. HAMMOND JOHN H. CAMPION

REPORT OF TREASURER

PRINCIPAL FUND

January 1, 1922

Cash in Banks	\$10911.21	
Real Estate, Mortgages and Bonds	65943.07	
Transferred from Income Account	145.72	
	<hr/>	\$77000.00

December 31, 1922

Cash in banks	6911.53	
Real estate, mortgages and bonds	70088.47	
	<hr/>	77000.00

January 1, 1922

Cash in banks	10911.21	
Mortgages paid during year	5695.00	
Transferred from income account	145.72	
	<hr/>	16751.93

December 31, 1922

Invested in new mortgages and bonds	9840.40	
Cash in bank	6911.53	
	<hr/>	16751.93

INCOME

January 1, 1922

Cash in bank	1267.72	
Interest and rents	4331.15	
	<hr/>	5598.87

EXPENDITURES

N. C. Hamblin, Principal	800.00
Helen DeM. Dunn, instructor	1550.00
Hazel Underwood, instructor	1600.00
Rogers & Angus, insurance	25.00
Andover National Bank — box rent	5.00

Amount carried forward

\$3980.00

<i>Amount brought forward</i>	\$3980.00	
Harry H. Noyes, treasurer	200.00	
Transferred to principal account	145.72	
Interest on bonds	59.00	
Balance	1214.15	
	<hr/>	5598.87

BARNARD FUND

January 1, 1922		
Cash in bank	25.50	
Dividends	40.00	
	<hr/>	65.50
Prizes awarded		
First	20.00	
Second	12.00	
Third	8.00	
December 31, Cash in bank	25.50	
	<hr/>	65.50

DRAPER FUND

January 1, 1922		
Cash in bank	1443.22	
Dividends	71.52	
	<hr/>	1514.74
Scholarship — Dorothy M. Ryley	30.00	
Minerva Ramsdell	60.00	
Cash in Andover Savings Bank	1424.74	
	<hr/>	1514.74

GOLDSMITH FUND

January 1, 1922		
Cash in Bank	263.47	
Dividends	13.32	
	<hr/>	276.79
Prizes awarded	10.00	
December 31, 1922		
Cash in Andover Savings Bank	266.79	
	<hr/>	276.79

HARRY H. NOYES, *Treasurer*

REPORT OF WAR MEMORIAL COMMITTEE

Andover, Mass., Feb. 15, 1923

This Committee was appointed in March, 1921, to consider plans for the taking of a suitable site to provide for the construction of a worthy memorial to citizens of Andover who served in the World War, to be so located as to possibly form part of a civic center in connection with such further additions and improvements as the Town may later approve.

Such a commission necessitated study of some general questions of town planning and consideration of the needs of Andover in the next twenty-five years to provide for natural expansion and for the development of the finest and soundest town spirit. We reported in February, 1922, that we had found everywhere a desire for a better type of memorial than those selected commonly in the past, with a very general feeling that careful thought should be given to the whole subject and hasty conclusions avoided. In considering the future needs of Andover our studies had then shown that a new Public Library, a larger and better Town Hall, better quarters for the town officials and for community and civic activities would soon be necessary; and that there would be many advantages in grouping such important public buildings as undoubtedly must be erected in the near future with the War Memorial as the central feature, thus bringing together the main public interests in a well worked out town center.

In order to accomplish this result it is necessary to adopt today a general plan of development into which each step as made year after year will fit, so that eventually the completed work will form an harmonious whole and be of large permanent benefit to the town. The Committee, therefore, sought expert advice and after thorough investigation employed Mr. John Nolen, Town Planner of large experience, and his associate, Mr. Philip W. Foster, a former Andover boy. We discussed with them the

work we had done and the general lines of development which we believed should be followed and asked them to apply their wide experience to the working out of these ideas to meet the conditions in Andover in the best possible way. They have done this thoroughly, their report is attached and a careful reading of it is urged.

The main objects it is desired to accomplish are to provide additional highways and open spaces to meet the needs of modern traffic, secure excellent sites and settings for future public and semi-public buildings and to furnish attractive space for business expansion sure to come with the rapid growth of the town. This can be done readily by giving Bartlet Street better outlets at each end and by opening up some space on Park Street. The plan attached shows the proposal clearly and the report of Messrs. Nolen and Foster explains the details and gives sound reasons for the development proposed.

If this general scheme of replanning is adopted we recommend that the whole broad improvement be dedicated as the Andover War Memorial and then that a finely designed tower, fountain or other distinct memorial of like character, be set up on the excellent site which would be provided by the division of Bartlet Street, to bear witness permanently that it is in this large way that Andover is to recall forever the acts of its citizens who have served in the wars of the nation. Obviously the exact form of this special memorial cannot be determined until the main features of the whole development are decided upon. It is believed that this distinct memorial should be mainly provided by private subscriptions so that all may have a direct part in it.

It will be seen that our aim has been to look into the future in a comprehensive way so that each step in growth and new construction will form part of a final broad plan. If growth occurs without such an outlook and in the ordinary piecemeal way the result will fall far short of the possibilities and with no ultimate gain financially. It is, however, appreciated that with the large expenditures probably necessary this year, it would not be wise to provide for any outlay for this plan at present. The Committee, nevertheless, has given consideration to the methods which could be adopted for carrying out such a plan. We find that under the so-called excess condemnation act, the town could

obtain adequate authority from the Legislature for the carrying out of the plan in such a way as to control the entire development and prevent the construction of unsightly buildings which would spoil the whole effect. The land not used by the town can then be sold under reasonable restrictions so as to defray ultimately a considerable part of the cost of the improvements.

The Committee believes it for the best interest of Andover to now adopt the broad plan of development described herein and provides for carrying it out as the needs of the town require and as the finances of the town justify expenditures for such work. We hope the citizens will see the great advantages that such a development would be to Andover and give every possible help to insure the final success of the whole scheme.

RECOMMENDATIONS

The following action is advised at the March meeting:

1. To approve the general plan of development proposed and make it the policy of the town to carry it out at such times and in such ways as the voters of the town decide from year to year and
2. To continue a Committee to work out the best method of putting the plan into effect gradually, petition the Legislature for any powers the town may need to act definitely, present an estimate of the cost to insure the final carrying out of the plan, and suggest the specific form of the distinct memorial when the main features of the development are established.

Our town now has the opportunity to adopt a far-sighted plan for guiding its future growth so that Andover will continue to be one of the most beautiful towns in New England. Expansion may be made to harmonize with natural advantages while providing the best possible conditions for modern traffic, business activities and community cooperation and all with ultimate financial gain to the town because it provides for the most effective utilization of the center areas. This is Andover's chance to build in the wisest ways for the years to come. It makes the War Memorial idea the moving force in giving Ando-

ver that type of development which will be a constant aid to a finer town life and to the maintenance of the best Andover spirit.

Respectfully submitted,

(Signed) E. V. FRENCH, *Chairman*

JOHN F. O'CONNELL

HENRY A. BODWELL

BURTON S. FLAGG

E. BARTON CHAPIN

WALTER M. LAMONT

War Memorial Committee

Prof. Forbes took active part in much of the Committee work but due to absence in Europe has been unable to consider and sign this report.

The details of the plan are described fully in the report of Messrs. Nolen and Foster which follows:

15 February, 1923.

Andover War Memorial Committee

Andover, Massachusetts

Gentlemen:

After the Civil War a great wave of public feeling swept over the country and the love for those who had fallen in the struggle and the appreciation of their sacrifice was expressed in lasting form in Soldiers' Monuments and Memorial Halls. These dotted the country over but unfortunately, for the most part, were far from artistic and decidedly unworthy to express the sentiment for which they stood. They were located on open lots easily acquired or on triangles at street intersections without regard for the developments on the surrounding properties. In spite of this lesson of the past, many of our communities are today making similar mistakes in the placing of their Memorial Buildings and Monuments. It was largely to prevent just such conditions, the result of hurried decisions, that induced the French Government to pass an act prohibiting the erection of monuments until ten years after the close of the World War.

The decision of the Andover Committee to study the possibilities in and the probable future development of the center of the

town before making its recommendations as to the exact form, character and location of the proposed war memorial for Andover is one that should be highly commended. It is with this two-fold purpose in mind that we have made our study of the situation and have prepared plans that would not only show what Andover has in store if properly and thoughtfully developed to cope with the future, but also suggests various opportunities for the location and construction of a war memorial that would be a continual source of pride and inspiration to the generations that are to come. Whether the final decision is for a memorial building, a worth-while fountain, a monument, a memorial open space or square, it can be placed with an assurance that it will fit into and become a part of the Andover of the future, and be a permanent institution.

The following brief report, on the question of a war memorial and the relation of its possible location to future developments in the center of the Town of Andover, is submitted to your committee in further explanation and argument to the plans that have been prepared.

Andover is one of the oldest towns in the state, having been incorporated in 1646. The center of the village of over two centuries ago is practically the same center of today, but the conditions and requirements of 1923 are considerably different from anything that was even dreamed of in the early days.

In the hundred years from 1800 to 1900 Andover grew slowly from a small village to a town of 6,813, but in the last few years since the war, has fast been approaching the small city class. There is some difference of opinion as to the exact figure for the present population but 9,000 seems to be a fair assumption; the final official 1920 census figure being 8,268.

Not so very many years back, well this side of the earliest memories of the oldest inhabitant, Elm Square and Main Street were open and spacious places free from car tracks and motor trucks and adequate for all the traffic of the time. Hitching-posts and rings were plentiful and "parking space" easy to find at almost any time except perhaps on Town Meetings day or the night of the minstrel show.

Also in those days there was an open park space in the center of town, a green triangle in front of the Elm House, where con-

certs given by the local band and other entertainments were held, not to mention the itinerant fakir who enlivened the life of the Square almost every week during the summer with his small shows and exhortations to buy rattle-snake oil or handkerchiefs for the whole family for the sum of twenty-five cents.

Those days have gone and with them the only real open green space in the center of town. The streets are no longer adequate to take care of modern traffic, the business section of town is cramped and seeks an outlet and the entire structure is in need of replanning and reconstruction; not a radical upheaval of existing conditions and present investments but a gradual expansion and growth along definite thought out lines to meet the needs of the time and the demands of the future.

There is a present tendency in modern life toward decentralization. The automobile has made it practicable for people to live at a distance from their work and this trend is particularly noticeable in crowded industrial centers. Andover is more and more destined to become a residential center for people whose business is in Lawrence and Boston. The nearness to Lawrence and the development of Shawsheen Village will cause a rapid growth in population in the next few years and any plans for the future should look forward to a community of 18,000 to 20,000 in the next twenty-five years. To take care of this coming growth expansion will have to be made in all directions, wider streets, new residential property, new streets, more shops, and schools, churches and public buildings.

Topographically the center of Andover is peculiar. The present center is on the edge of a sharp hillside, so that expansion of the business to the north along Main Street or west on Essex or Central Streets is practically out of the question. Certain business developments have taken place along these streets but a business district will tend to avoid such conditions and is seldom successful under them unless other possibilities are lacking. Expansion to the south is far from desirable because of the present high-class residence property here located. The introduction of the present commercial garage into this section is without doubt a mistake as viewed from the standpoint of the district and the town as a whole.

The only opportunity then for business to expand in a satis-

factory way, is to the east. Here fortunately we find ideal conditions and real possibilities. The entire area bounded by Elm Street, Main Street, Punchard Avenue, Whittier, Park and Florence Streets has a street elevation that varies only about eight feet, while the elevations at Park and Main Streets, Park and Florence Streets, Whittier and Bartlet Streets and Chestnut and Main Streets has a difference of less than one foot. Such a condition is in sharp contrast with the grade of Essex Street, for example, where there is a difference of 70 feet between the Railroad Station and Elm Square.

This particular area is also in the direction of the future growth of the town and will be nearer the future center of population. The large acreage holdings of both Abbot Academy and Phillips Academy to the south interrupt a continuous growth in this direction, and beyond, over the top of the hill, there is a tendency to hold the property in larger tracts. The steep river valley to the west and northwest, with its railroad and mill development, discourages expansion in this direction. North of the town, however and east are large tracts suitable and available for housing purposes, and these lands are bound to come into development within the next few years. Moreover this section of town is most convenient to Lawrence and to Shawsheen Village.

Again, another factor that makes this Park Street a desirable one in which to do replanning is the low assessed value of both land and buildings, and the lack of any structure of real value. Here it is possible to effect street changes that will not only greatly improve general traffic conditions but will produce better business property and make available for intensive use land that is now idle property and practically inaccessible.

Therefore, we believe that it is within this area that the future of Andover is held, and in planning for its development the first consideration has been circulation.

There is only one traffic outlet to the south from Andover center, Main Street being the only street running through this south section of town. Over this highway is a steady stream of traffic from the Boston Metropolitan District to Lawrence, Manchester and Haverhill and beyond to the mountains and beaches.

What Andover needs to relieve this situation on the Main

Street, at the center is a local parallel street that will divert a part of the through traffic and provide for the local use about town. Bartlet Street is such a parallel street but without proper connection to either end. Therefore the problem is to replan in such a way as to give it an outlet to north and south and thereby provide for the present Haverhill traffic and much of the future High Street traffic due to Shawsheen Village as well as local business that now passes back and forth through the Square.

The plan proposed divides Bartlet Street at Park Street, one branch extending east connecting with Elm Street at Florence Street, the other extending west connecting with Elm Street at High Street. The first would pick up the Haverhill traffic and the second connect with the upper road to Shawsheen Village and Lawrence. At the southern end of Bartlet Street, traffic would reach Main Street through Chapel Avenue and there should also be provided an outlet to the east passing south of Rabbits Pond and continuing to Highland Road and Salem Street.

As a further improvement in the local circulation system, we have shown on the plan two streets leading out from the general center of town and opening up the territory to the southeast, an area extending from upper Bartlet Street around to Chestnut Street that is practically unbuilt upon. The first of these is an extension from Whittier Street following the valley at the rear of the School properties and passing east of Rabbits Pond and connecting with Salem Street. The other proposal is to build a double parkway street with the brook retained in a central planting area, from the Park to Highland Road and on to Salem Street, following for the most part the natural brook valley.

This opening up of Bartlet Street together with the new streets leading into this area will form a business district extending from Elm to Chestnut Streets and from Florence to Main Streets. The frontage available for business use would be about twice that now occupied which would be not an excessive provision for the future population. A district such as this for business use would have many advantages over the present one-street arrangement.

To open up the center of the proposed business district and provide adequate street room and an appropriate setting for the

public buildings proposed we have shown Bartlet Street widened to 100 feet between Chestnut and Park Streets, and have shown a similar treatment south from Park Street just to the rear of the present Town Hall. The problem of providing adequate parking space for automobiles in the center of our towns and cities is already one of first magnitude. It presents itself in two forms, first, the provision for the ordinary daily business and the parking of cars of those whose offices and shops are in the central district, and second, provision for adequate parking for machines on special occasions. Both of these conditions would be well provided for in the proposed plan and at the same time the areas used for parking would be out of line of through traffic.

The triangle formed by the two new streets and Elm Street would become the social center of the town. The dominating site, at the point of the triangle, on the axis of Bartlet Street, should be reserved for a future important Public Building. This location is an exceptional one and a building here located would have a dominant place in the life of the town. The Free Church now occupies a part of this area and it is suggested that the lots to the east and west would be used for social, fraternal or other semi-public buildings which would tie in with the new Masonic location at the junction of Elm and High Streets.

To the east of Bartlet Street we have shown locations for other public buildings which would connect up the buildings on the triangle just mentioned with the Park and the school buildings on Bartlet Street. The sites shown would be suitable for a new Fire Station, Post Office or other similar building. There is some feeling that the present Town Hall will in years to come be inadequate and could then be torn down and the future Town Hall be a part of this proposed building group. The present site would be left open and become a part of the business center. Two other well located sites for public or semi-public buildings are shown, one at the head of Park Street, where we have suggested a building of this character, and the other at the head of Florence Street on which site we have suggested a possible future Auditorium. If it was felt that an Auditorium was not necessary the same site could be turned over for commercial purposes and would be an excellent location, handy to the center of town, for a public garage.

Another excellent location for a public building is the site on Bartlet Street at the head of Whittier Street. This property would be especially suitable for a Library because of its nearness to the schools.

Other schemes for the grouping of public buildings in Andover have been proposed in the past and have been based usually on the idea of acquiring a block and grouping the buildings thereon. Such an arrangement provides open space for the buildings and gives an opportunity for bringing the various units into harmony. It does not, however, improve the circulation problem nor does it give opportunity for placing buildings at the end of streets and thus obtain the advantages of a long vista. Most public buildings have to be seen at such short distances that much of the effect and beauty is lost.

A word as to the cost of the proposed schemes as based on the total assessed valuations of the property that would be affected is necessary. The assessed value of land and buildings affected by the proposed scheme between Elm and Park Streets and east to Florence Street is \$60,950. This does not include the church property which of course would not be disturbed. The land and buildings affected by the proposed public building property east from Bartlet Street and including the Auditorium site is \$38,050. The property on the west side of Bartlet Street, from Chestnut Street to Park Street, has an assessed valuation of \$21,400. The town property including the Fire Station and the town yard is valued at \$50,000. This makes a total valuation for all land and buildings, not now the property of the town, affected by the proposed scheme, of \$120,400.

In return for this expenditure the town would obtain building sites for all the important buildings which will be needed for many years. In addition there would be for sale a site for the Post Office, and two other large lots suitable for fraternity or similar semi-public buildings, and above all approximately 1,100 front feet of store and shop property. Using the same assessed valuation figures as are used for similarly located property, the new frontage would be worth, on an average, at least \$60.00 per front foot. In contrast with these figures it would be well to note that the block bounded by Chestnut, Bartlet and Main Streets and Punchard Avenue has an assessed valuation of \$123,100, and that

this area, under previous plans, was all to be used for public property. Had this scheme been carried out it would have added very little value that could have been assessed directly against adjacent properties.

In carrying out such a scheme as the one we have proposed for the development of the center of Andover it will have to be undertaken in a broad comprehensive way looking toward the future, and the keeping in mind advantages that will come to the town as a whole. To do such a piece of work in a small way and with a narrow outlook, compromising with petty local interests would almost surely result in a failure, or at best only a partial success. Probably the best method of procedure would be to have the work done by a commission with sufficient power and authority to handle all the details of the problem.

If Andover can carry out this proposed plan of development, the center can easily become one of the most attractive business locations in the State. With such a scheme everything that is well done as years go on will add to the beauty of the town, and any memorial, here erected, will for all time be in a setting worthy of its character and meaning.

Respectfully submitted,

PHILIP W. FOSTER
JOHN NOLEN

TOWN WARRANT

THE COMMONWEALTH OF MASSACHUSETTS

ESSEX, ss.: To either of the Constables of the Town of
Andover, GREETING:

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in elections and in town affairs to meet and assemble at the designated polling places in Precincts One, Two, Three and Four, viz: The Town House in Precinct One; the Old School House, Ballardvale, in Precinct Two; the Boys' Club House, Shawsheen Village, in Precinct Three; and the Phillips Club House, School Street, in Precinct Four, in said Andover, on MONDAY, THE FIFTH DAY OF MARCH, 1923, at 6 o'clock a.m., to act on the following articles:

Article 1.—To elect a Moderator for one year, Town Clerk for one year, Treasurer for one year, Collector of Taxes for one year, one member of the Board of Selectmen for three years, one member of the Board of Assessors for three years, three members of the School Committee for three years, one member of the Board of Public Works for three years, one member of the Board of Health for three years, three Auditors of Accounts for one year, three Constables for one year, one Trustee of Memorial Hall Library for seven years, one Trustee of Memorial Hall Library for six years (to fill vacancy), one Tree Warden for one year and all town officers required by law to be elected by ballot. Also to take action on the following questions: Shall licences be granted for the sale of certain non-intoxicating beverages in this town? "Shall the town petition for the installation of an accounting system by the Commonwealth? (This question is submitted under the provisions of Chapter 516, Acts of 1922.)"

All to be voted for on one ballot. The polls will be open from 6 o'clock a.m. to 5 o'clock p.m.

After final action on the preceding Article one, the said meeting shall stand adjourned by virtue of Section 20, Chapter 39, of the General Laws, to Monday, March 12th, at 1.30 o'clock p.m. at the Town Hall, then and there to act upon the following Articles, namely:

Article 2.—To elect all other officers not required by law to be elected by ballot.

Article 3.—To determine what sums of money shall be appropriated for Almshouse Expenses, Relief out of Almshouse, Aiding Mothers with Dependent Children, Board of Health, Brush Fires, Fire Department, Hay Scales, Highway Department, Insurance, Interest, Memorial Hall Library, Memorial Day, Post 99, G.A.R., Miscellaneous, Parks and Playsteads, Police, Printing and Stationery, Election and Registration, Public Dump, Retirement of Veterans, Redemption of Water, Sewer, High School, Main Street and Shawsheen Bridge Bonds, Schools, Sewer Maintenance, Sewer Sinking Funds, Soldiers' Relief, Spring Grove Cemetery, State Aid, Street Lighting, Town Officers, Town House, Tree Warden, Moth Department, Water Maintenance, Construction and Sinking Funds, Andover Post No. 8, American Legion, and other town charges and expenses.

Article 4.—To see if the town will vote to appropriate the sum of \$6000.00 to pay the unpaid bills contracted by the Almshouse Building Committee, and to build a combination Barn and Garage, on petition of the Selectmen.

Article 5.—To see if the Town will vote to purchase a combination truck and ambulance for the use of the Police Department and appropriate the sum of \$700.00 for the same, on petition of the Selectmen.

Article 6.—To see if the Town will appropriate the sum of \$14,157.15 in addition to the balance on hand of \$1140.29 to pay for bills due for extra work done in the reconstruction of Main Street, on petition of the Board of Public Works.

Article 7.—To see if the Town will appropriate the sum of \$10,000.00 for granolithic sidewalks on either side of Main

Street and do necessary grading, on petition of the Board of Public Works.

Article 8.—To see if the Town will accept the provisions of an Act of the Legislature of 1923 "Authorizing the Town of Andover to construct an Outfall Sewer for the Disposal of its Sewage."

Also to see if the Town will vote to issue bonds or notes of the Town in the aggregate amount of one hundred and fifty thousand (\$150,000.) dollars for the purpose of paying the necessary expenses and liabilities incurred under this act, the indebtedness under this act to be in excess of the statutory limit, but, except as otherwise provided therein, subject to Chapter Forty-four of the General Laws, on petition of the Board of Public Works.

Article 9.—To see if the Town will authorize and direct the School Committee to petition the General Court of 1923 for authority to borrow the sum of two hundred and sixty-eight thousand (\$268,000.) dollars outside the statutory limit of indebtedness, by bond issue or otherwise, for the following purposes.

To grade and loam the lot and to build and equip a new grammar school building, to be located on the land given by the American Woolen Company and accepted by the town, situated at the junction of and between Corbett Street and Magnolia Avenue, on petition of the School Committee.

Article 10.—To see if the Town will vote to purchase a Motor Ladder Truck for the Fire Department and appropriate a sum of \$15,000.00 for the same, on petition of William C. Crowley and others.

Article 11.—To see if the Town will authorize the Board of Public Works to extend the water main from the present termination of same on Corbett Street at premises of Antonio Catanzaro, a distance of seventeen hundred (1700) feet along said Corbett Street to the main entrance to the Sacred Heart Cemetery, and appropriate a sum of money sufficient therefor, on petition of Edward Topping and others.

Article 12.—To see if the Town will appropriate a sum of \$10,000.00 to lay a 6-inch water main on Chandler Road, to the residence of William F. Trauschke and others, on petition of William F. Trauschke and others.

Article 13.—To see if the Town will accept the provisions of Section 85 of Chapter 32 of the General Laws of Massachusetts entitled "Pensions for Policemen and Firemen," on petition of Colver J. Stone and others.

Article 14.—To hear and act on the report of the War Memorial Committee.

Article 15.—To see if the Town will deed back to the Boston & Maine Railroad a certain piece of land situated in Ballard Vale, deeded to the town from the said Boston & Maine Railroad September 16th, 1871, on the express condition that neither the land nor the building thereon be used for any other purpose than housing fire apparatus, on petition of the Selectmen.

Article 16.—To determine the method of collecting the taxes for the ensuing year.

Article 17.—To authorize the Town Treasurer to hire money for the use of the town in anticipation of the revenue of the current financial year, with the approval of the Selectmen.

Article 18.—To determine what disposition shall be made of unexpended appropriations.

Article 19.—To act upon the report of the Town Officers.

Article 20.—To determine the amount of money to be raised by taxation the ensuing year.

Article 21.—To transact any other business that may legally come before the meeting.

And you are directed to serve this warrant by posting attested copies and publication thereof, seven days at least before the time of said meeting as directed by the By-Laws of the town.

Hereof fail not and make return of this warrant with your doings thereon, at the time and place of said meeting.

Given under our hands this twenty-first day of February, A.D. 1923.

WALTER S. DONALD
CHARLES BOWMAN
ANDREW McTERNEN

Selectmen of Andover

RECOMMENDATIONS OF FINANCE COMMITTEE

Efficient work by the committee is rendered difficult by the crowding of important questions of town policy into a very few days before the date on which our report must be printed.

Proper investigation and discussion of the problems presented is impossible, and as we are expected to make definite recommendations to the town, it follows that our report on matters of large import must be the result of hasty judgment rather than careful deliberation. This is unfair alike to the town, those presenting the problems, and to the Finance Committee.

We have called attention to this matter in previous reports and as a corrective measure had intended to insert an article in the warrant for an amendment to the by-laws, requiring all information on articles to be presented at least one month prior to the town meeting, but we find that proposed amendments to town by-laws require the approval of the Attorney General and it was not possible to secure his approval before the town meeting.

It would be of great value to the town to have all budgets, and plans, presented earlier than this so that the complete Town Report could be issued a month before the Town Meeting. Thus, the whole business of the town could be studied by the voters and intelligent conclusions drawn. We hope that with the co-operation of all Town Departments this may be accomplished.

Following are the recommendations of the Finance Committee on the matters submitted to it:

Almshouse	\$6600.00
This is \$600 more than appropriated last year and is added this year for the reason that almshouse receipts like the receipts of all town departments, must now be returned to the general treasury.	
Almshouse Relief out	5000.00
This is the same amount as was appropriated last year.	
Aiding Mothers with Dependent children	2500.00
Board of Health	3600.00
Brush Fires	1000.00
Elections and Registration	600.00
Essex County Tuberculosis Hospital	2823.50
This is the amount the town of Andover has been assessed by the County for running expenses of this institution.	
Fire Department	23930.00
Last year the cost of maintaining the Fire Department was \$23,967.00.	
G. A. R.	100.00
Hay Scales	125.00
Highway Department	
Maintenance	40000.00
New construction	30000.00
It is the recommendation of the Finance Committee that the appropriation for new street construction shall be the same as last year, namely \$30,000, and that the appropriation for maintenance shall be \$40,000 instead of \$30,000 which was the appropriation last year. This increase is urged because of the cost of snow removal.	
Interest	17500.00
Insurance	6000.00
<i>Amount carried forward</i>	<u>\$139778.50</u>

<i>Amount brought forward</i>		\$139778.50
Fire	\$3500.00	
Workmen's Compensation	2500.00	
Library		4000.00
This is an increase of \$1000 over the amount appropriated last year.		
Memorial Day		550.00
Miscellaneous		1200.00
Parks and Playsteads		1200.00
Police Department		14500.00
Last year this department was maintained at a cost of \$12,606.15 and an increased appropriation is recommended to permit the employment of an additional officer in Shawsheen Village.		
Printing and Stationery		2000.00
Public Dump		75.00
Retirement of Veterans		300.00
Retirement of Bonds		35500.00
Sewer	\$7000.00	
High School	6000.00	
Shawsheen Bridge	2500.00	
Main St. Construction	20000.00	
Schools		111883.00
This is an increase of \$8463.00 over the appropriation of last year and is represented by the provisions for an increase in the teaching corps in Shawsheen Village.		
Sewer Department		4000.00
Labor and Power	\$3000.00	
Sinking Fund	1000.00	
Soldiers' Relief		1500.00
Military Aid		200.00
This appropriation is for the relief of veterans of the World War and any disbursement made on this account is reimbursed by the State.		
<i>Amount carried forward</i>		\$316686.50

<i>Amount brought forward</i>	\$316686.50
Spring Grove Cemetery	5200.00
<p>Last year the town appropriated under this item, \$2500 and the receipts from the sale of lots. These receipts average about \$2600 yearly and as they must now be returned to the general treasury an appropriation of \$5200 is recommended.</p>	
State Aid	600.00
Street Lighting	\$10000.00
<p>This appropriation is increased about \$1800 over the amount voted last year and this increase is due almost wholly to the added cost of lighting Main Street.</p>	
Town Officers	10400.00
Tree Warden and Moth Work	15000.00
<p>This year the town will be required by the Commonwealth to spend approximately \$5000 on moth work and in addition a new sprayer which will cost \$2250 is needed in this department, so that a total of \$7250 is recommended for moth work. For tree work the sum of \$7750 is recommended. It has been the practice in past years to make an appropriation for both town and private tree work without designating the amount to be spent on the town's trees and on roadside cutting. The Finance Committee recommends that \$3750 be spent on town work and \$4000 on private work, this latter amount to be returned to the Town treasury.</p>	
Water Department	\$37000.00
Water Department, Service Pipe	2500.00
	<hr/>
	\$397386.50

The Finance Committee respectfully recommends the following action regarding the articles in the warrant:—

Article 4. To see if the Town will vote to appropriate the sum of \$6000.00 to pay unpaid bills contracted by the Almshouse Building Committee, and to build a combination Barn and Garage, on petition of the Selectmen.

(Approved. — The appropriation of \$40000 made at the last town meeting was insufficient to complete the almshouse due mainly to changes and additions insisted upon by officials of the State. The sum required to complete the building is \$3000 and an additional sum of \$3000 is asked in order to build a barn and a garage and to do necessary grading.

Article 5. To see if the Town will vote to purchase a combination truck and ambulance for the use of the Police Department and appropriate the sum of \$700 for the same, on petition of the Selectmen.

(Approved — This item came before the last Town Meeting in the budget of the Police department.)

Article 6. To see if the Town will appropriate the sum of \$14,157.15 in addition to the balance on hand of \$1140.29 to pay for bills due for extra work done in the reconstruction of Main Street, on petition of the Board of Public Works.

(Approved — During the course of construction work on Main Street it was found necessary to reconstruct several water channels and also to make a new covering over Stony brook where the brook crosses Main Street, contingencies not looked for when the construction contract was entered into. This work accounts for the greater part of the amount asked for in the Article although the contract itself calls for some \$4000 more than the town appropriated for the work.)

Article 7. To see if the Town will appropriate the sum of \$10,000.00 for granolithic sidewalks on either side of Main Street and do necessary grading, on petition of the Board of Public Works.

(Approved — It is understood by the Finance Committee that these walks are to replace the sidewalks ruined when Main Street was rebuilt last year.)

Article 8. To see if the Town will accept the provisions of an Act of the Legislature of 1923 "Authorizing the Town of Andover to construct an Outfall Sewer for the Disposal of its Sewage."

Also to see if the Town will vote to issue bonds or notes of the town in the aggregate amount of one hundred and fifty thousand (\$150,000) dollars for the purpose of paying the necessary expenses and liabilities incurred under this act, the indebtedness under this act to be in excess of the statutory limit, but, except as otherwise provided therein, subject to Chapter Forty-Four of the General Laws, on petition of the Board of Public Works.

(Approved — The Finance Committee believes that the plan of an outfall sewer system as described in the report of Weston and Sampson, the engineers employed by the Board of Public Works, is the best solution of this problem.

Article 9. To see if the Town will authorize and direct the School Committee to petition the General Court of 1923 for authority to borrow the sum of two hundred sixty-eight thousand (\$268,000) dollars outside the statutory limit of indebtedness, by bond issue or otherwise, for the following purposes:

To grade and loam the lot and to build and equip a new grammar school building, to be located on the land given by the American Woolen Company and accepted by the town, situated at the junction of and between Corbett and Magnolia Avenue, on petition of the School Committee.

(This project was brought before the Finance Committee too late for an investigation that would admit of a report for the Town Report. The subject is, however, still under discussion and it is expected that the recommendation of the Finance Committee will be made public before the Town Meeting.)

Article 10. To see if the town will vote to purchase a Motor Ladder Truck for the Fire Department and appropriate a sum of \$15,000 for the same on petition of William C. Crowley and others.

(Approved — The Finance Committee has considered the purchase of this equipment for several years and now feels

that nothing can be gained by further delay in securing this piece of fire-fighting apparatus. The present truck is not only antiquated but is out of repair to the extent that it is dangerous to use. Ten thousand dollars is recommended for this purpose and this is the sum which will be asked by the Fire Department.)

Article 11. To see if the Town will authorize the Board of Public Works to extend the water main from the present termination of same on Corbett Street at premises of Antonio Catanzaro, a distance of seventeen hundred (1700) feet along said Corbett Street to the main entrance to the Sacred Heart Cemetery, and appropriate a sum of money sufficient therefor, on petition of Edward Topping and others.

(Referred to the Board of Public Works.)

Article 12. To see if the Town will appropriate a sum of \$10,000 to lay a 6-inch water mian on Chandler Road, to the residence of William F. Trauschke and others, on petition of William F. Trauschke and others.

(Referred to the Board of Public Works.)

Article 13. To see if the Town will accept the provisions of Section 85 of Chapter 32 of the General Laws of Massachusetts entitled "Pensions for Policemen and Firemen," on petition of Colver J. Stone and others.

(This matter was not presented to the Finance Committee for consideration.)

Article 14. To hear and act on the report of the War Memorial Committee.

(This article does not require action on the part of the Finance Committee.)

Article 15. To see if the Town will deed back to the Boston & Maine Railroad a certain piece of land situated in Ballardvale, deeded to the town from the said Boston & Maine Railroad, September 16, 1871, on the express condition that neither the land nor the building thereon be used for any other purpose than housing fire apparatus, on petition of the Selectmen.

(Approved.)

SUMMARY

Department appropriations recommended		\$397386.50
Special appropriations recommended		40857.00
		<hr/>
		\$438243.50
State Tax (estimated)	\$30000.00	
County Tax (estimated)	20000.00	
	<hr/>	50000.00
		<hr/>
		\$488243.50

RESOURCES

Cash on hand	\$5000.00	
Corporation and Bank tax (est.)	30000.00	
From State for Schools	8500.00	
Water Rates	31000.00	
Income Tax	17000.00	
Spring Grove Cemetery	2500.00	
Sundries	6000.00	
	<hr/>	100000.00
		<hr/>
		\$388243.50

VALUATION

	1921	1922	1923 (est)
Personal	\$2309395.00	\$2616195.00	\$2616195.00
Real Estate	8638965.00	9349375.00	10849375.00
	<hr/>	<hr/>	<hr/>
	\$10948360.00	\$11965570.00	\$13465570.00

Computation of tax rate for 1923 using these figures

$$\begin{array}{r}
 \$388243.50 \\
 \hline
 \dots \$28. + \\
 \$13465570.00
 \end{array}$$

Respectfully submitted,

HENRY A. BODWELL, *Chairman*
 GEORGE ABBOT E. V. FRENCH
 GEORGE L. AVERILL C. W. HOLLAND
 GEORGE H. WINSLOW JOHN C. ANGUS, *Secretary*
Finance Committee

TRUSTEES OF MEMORIAL HALL LIBRARY

E. KENDALL JENKINS ALFRED E. STEARNS
FREDERIC S. BOUTWELL BURTON S. FLAGG
NATHAN C. HAMBLIN
FREDERICK A. WILSON

President

E. KENDALL JENKINS

Secretary and Treasurer

FREDERIC S. BOUTWELL

Librarian

EDNA A. BROWN

Assistants

JULIA E. TWICHELL EDITH DONALD
VIRGINIA L. RAMSDELL

In Charge of Ballardvale Branch

MARTHA D. BYINGTON

Janitor

ARCHIBALD MACLAREN

MEMORIAL HALL LIBRARY

FIFTIETH REPORT OF TRUSTEES

The annual report of the trustees of Memorial Hall Library for 1922 is herewith submitted.

The past year has shown much of encouragement and of progress in the work of the library as can be seen by the interesting report of the librarian which follows and which deserves thoughtful reading by all the citizens of Andover.

Few towns of its size have so large a percentage of its population using its books, for 2615 borrowing cards are held by Andover people. A fact of much interest is the increasing use of non-fiction volumes. The majority of books borrowed are fiction as one would naturally expect. But our children should be encouraged to read history, biography, travels and other such literature which will give information and stimulate thought.

Parents and teachers can help greatly in cultivating a taste for such reading in the minds of the children. Our library is rich in such works, and a larger use of them is hoped for in the future.

The librarian is seeking to answer calls for books on new or popular subjects of the time as the recent addition of volumes on automobiles and radio apparatus indicates.

Several citizens in the near past have donated valuable volumes from their own libraries and have thus enabled the library to secure desirable works without expense. It is to be hoped that this commendable example will be followed by many others of our townspeople.

Every year makes more pressing the need of larger accommodations for the library, the lack of which is seriously hindering its usefulness. The town should keep this in mind and plan to meet this need as soon as it can wisely be done. The rapid increase of population in Shawsheen Village makes the establishment of a branch library there advisable in the near future.

With our whole town the trustees mourn the death of Judge Charles U. Bell whose service on the board, though brief, was exceedingly valuable. His sound judgment, his experience in library direction elsewhere, his wide reading and personal interest in the library made his opinions of special weight in the business of the Board. His wise advice and genial companionship will long be missed in its monthly meetings.

The library is nearing the fiftieth anniversary of its founding. Its date, May 30th, should be observed in some appropriate manner. What do our town fathers say about it?

The Trustees, the librarian and her assistants are all eager to make the library as helpful as possible, and will welcome suggestions which would increase its usefulness.

Respectfully submitted,

E. KENDALL JENKINS, *Chairman*
ALFRED E. STEARNS
NATHAN C. HAMBLIN
BURTON S. FLAGG
FREDERICK A. WILSON
FREDERIC S. BOUTWELL

TRUSTEES OF MEMORIAL HALL LIBRARY
In account with the Town of Andover, Mass.

RECEIPTS

Balance from last year	\$2042.75
Town Appropriation	3000.00
Dog Tax	494.60
Income from Investments	3401.86
Fines	241.71
Gifts for Books	16.98
Cash paid for lost books	6.55
Sale of paper, etc.	6.80
Matured investments	7000.00
Total	<hr/> \$16211.25

EXPENDITURES

Salaries	\$4573.75
Lighting and Heating	658.88
Periodicals	205.95
Book-binding	234.35
Books	959.67
Insurance	496.92
Office Expenses	99.85
Legacy repaid	100.00
Sundry items	297.62
New Investments	6851.50
Cash on hand	1732.76
Total	<hr/> \$16211.25

Classification of Income and Expenditures for the Year 1922

INCOME

	<i>Maint.</i>	<i>Book</i>	<i>Cornell</i>	<i>Total</i>
Income from Investments	\$2151.61	\$893.64	\$356.61	\$3401.86
Appropriation	3000.00			3000.00
Dog Tax	494.60			494.60
Fines	241.71			241.71
Cash paid for lost books		6.55		6.55
Gifts for books		16.98		16.98
Sale of paper	6.80			6.80
Total	\$5894.72	\$917.17	\$356.61	\$7168.50

EXPENDITURES

Salaries	4480.29		93.46	4573.75
Lighting and Heating	521.38		137.50	658.88
Periodicals	205.95			205.95
Book-binding	234.35			234.35
Books		959.67		959.67
Insurance	496.92			496.92
Office Expenses	99.85			99.85
Sundry Items	297.62			297.62
Total	\$6336.36	\$959.67	\$230.96	\$7526.99
Unexpended balances			125.65	
Deficit	441.64	42.50		358.49

Condition of Funds and Unexpended Income, Jan. 1923

	<i>Funds</i>	<i>Income</i>
Maintenance Fund	\$46600.00	*\$800.01
Book Funds	17400.00	914.55
Cornell Fund (Permanent)	5000.00	433.28
Cornell Fund (Purchase)	4371.32	830.35
Special Funds and Principal cash		354.59
Total	73371.32	2532.77
*Deficit in Inc. in Maintenance Fund		800.01
Total cash on hand		\$1732.76

*Deficit

INVESTMENTS

Bangor & Aroostook R.R., 4s	\$11000.00
Boston Elevated Ry. Co. 4s	10000.00
Boston Elevated Ry. Co., 4½s	1000.00
Chicago Railways Co., 5s	9962.50
Montreal Tramways Co., 5s	9962.50
Michigan State Tel. Co., 5s	4981.25
Boston & Maine R.R., 4s	2000.00
Pacific Tel. & Tel. Co., 5s	1000.00
Southern Cal. Edison Co., 5s	2958.60
New Eng. Tel. & Tel. Co., 5s	989.00
Louisville Gas & Electric Co., 5s	915.00
The Dayton Power & Light Co., 5s	940.00
Utah Power & Light Co., 6s	1030.00
Am. Tel. & Tel. Co., stock, 4 shares	571.50
Savings Banks	15771.32
Principal Cash on hand	289.65
	<hr/>
Total	\$73371.32

FREDERIC S. BOUTWELL

Treasurer

January 31, 1923

This certifies that I have examined and found correct the above statements as of January 27, 1923, whereby all securities held against the several funds have been examined and the income accruing from same accounted for. All disbursements are supported by receipts in proper form and the cash has been verified and found correct.

BURTON S. FLAGG,

Finance Committee

REPORT OF THE LIBRARIAN

To the Trustees of the Memorial Hall Library:

GENTLEMEN:

I herewith submit the report of the library for the twelve months ending December 31, 1922.

The number of books circulated for home use during the year of 1922 is 46,993, which is less than for 1921, the record-breaker in the history of the library, but about 2700 more than for 1920. This fall in circulation is largely due to more prosperous industrial conditions and the fewer people out of work. There are, however, some interesting features, the most important being that the drop is chiefly in the use of fiction.

While the providing of wholesome stories is a legitimate and proper use of public money, every library is primarily an educational institution, a constructive force, working in cooperation with the schools and offering advantages to those whom the schools do not reach. The library has always done a large amount of reference work with the children, but during the past twelve months, there has been a marked increase in work with older people. The number of men using the different collections has steadily grown. From circulating only 30% of non-fiction, the monthly record now sometimes shows 40% of books of a serious nature taken from the library.

Our work with the town schools, both public and parochial, has been extensive and encouraging. It is especially gratifying to note the use of the library made by the teachers. At times, whole classes from the parochial school arrive at the library to look up assigned topics. Owing to lack of room, we are unable to reserve many books for the use of teachers, as we should like to do. In our crowded quarters, any special work is always undertaken at the expense of something else,—in its way, equally important. Always a compromise has to be made; it is not possible to do justice to everything.

As usual, the library has tried to furnish all available help for the work of the local clubs. We are yet hampered by the difficulty of getting books which are out of print, but in this matter, have been able to borrow from the Boston Public Library and from Haverhill, volumes wanted by the different study departments. We are also indebted to the Phillips Academy Library for the loan of one rare book. It is possible to repay the courtesy of the school library by lending it volumes from time to time, but we are forced to accept without repayment in kind, the kindness of the two city libraries.

Reference work is always an interesting part of our activities and literally thousands of questions are asked on every conceivable subject. None are too trivial to receive our interested attention. The library, through years of service, has built up this reputation for helpfulness to such an extent that people no longer living in town write for information which they are unable to obtain from the libraries near them. We take especial pleasure in requests from Andover girls, teaching in other communities, who turn to their home library for advice and help. The audiences at local plays, parties, socials, even at the Christmas pageant just past, perhaps do not realize that behind all these community activities stands their town library, with its books suggesting games, theatricals, refreshments, costumes, recitations. Somebody planned each entertainment, and almost as certainly, somebody went to the library for books.

There are several people in Andover who have given genuine help this year, by turning over for library use, copies of recent popular novels, thus releasing extra dollars for the purchase of books of less passing interest. For this reason, though the price of all books is still very high, we have been able to add an unusual number of valuable biographies and historical documents of various kinds. It is right that we should have a certain proportion of new fiction, and this passing on for others books one does not care to keep permanently is a service within the power of many people. It is a real public benefit. Not all the gifts have been confined to fiction; we have received other valuable additions, particularly in the departments of religion and history.

Among the books of special timeliness are those on radio. It

would be interesting to know how many sets in Andover have been constructed with the assistance of library books. Judging from the eagerness with which men and boys borrow these publications, they have rendered considerable help. During the early part of the year, we experienced considerable difficulty in keeping up with the demand on this subject. The development was so sudden and so rapid that at first, only periodicals had sufficiently up-to-date information, but the publishers soon rose to the opportunity, and at present, the library has a really good collection of books on radio, and on that other all-vital subject, automobiles. They are kept on the centre table, accessible to the most hurried visitor.

For the past twelve months, we have bought practically all fiction and juveniles in reinforced bindings. There is no doubt that this practice has lessened the bills for rebinding books, but it is not wholly satisfactory because the books, especially the juveniles, get so dirty. On inquiry, we find that librarians cannot agree about the strengthened bindings. Some think it pays; others think it is better to give the book a fresh cover after a time. In our library, the reinforced bindings seem to work well for adult fiction, but less acceptably for the children's books.

In order to relieve the congestion of the children's shelves, two small cases, a yard high and slightly longer, have been extended as wings from their central bookcase. This has been done at the expense of space in the reading-room, and by crowding the tables on that side. It is a makeshift arrangement. The children of Andover ought to have the undivided attention of one person, in a room of their own, open at stated hours, where they can have more freedom than is possible under present conditions. The work of the library is already large in this line, and could be much developed if there were only the opportunity.

Numerous new borrowers have registered during the year, 322 in all. A considerable proportion come from Shawsheen Village. There is no doubt that a branch there would be used and appreciated. It has been suggested by the Selectmen that when the new schoolhouse is built, one room in the old building should be reserved for the use of the Memorial Hall library, the others to be devoted to some town purpose, as is the case with the building at Ballardvale.

For many years the library has granted to people leaving town in the summer, the privilege of taking with them books not in especial demand. This custom has grown steadily, until the summer of 1922 shows the largest vacation use yet recorded. It is also interesting to note that no volumes thus borrowed have ever failed to come back.

The library has suffered a loss in the death of Judge Bell. Though his service as trustee was not long, his interest was genuine, and expressed, not only through faithful attendance at meetings, but by constant use of its books. It always means much to any librarian to have as trustees, men who really use the library. They are the only ones who know it under everyday conditions, and who can appreciate from personal experience its ideals, and its attempts to reach them. This factor in Judge Bell's service is an especial blow to the library.

Our full yearly accomplishment is never measured by the number of volumes circulated. The greater part of library work is in terms which cannot be reduced to statistics. It lies in the countless inquiries, to answer which requires intimate knowledge of books; in the personal attention given to each individual; in the effort to create a pleasant, home-like atmosphere. Not long ago, a new-comer to Andover told us that she considered the town remarkable for two reasons:—because it possessed a bank which actually treated a stranger as a human being, and because its library at once received her as a friend.

With next Memorial Day, the library will complete a half-century of service. There is no other town institution which serves young and old, rich and poor, with the same impartial consideration; none which enters so truly into the many-sided interests of the varying homes. Once established, a public library should become one of the most valuable assets of any town, — its influence limited only by the opportunity given it. The extraordinary growth in use and appreciation which the Memorial Hall Library records during its first half-century can be indefinitely extended and increased during the years to come.

Respectfully submitted,

EDNA A. BROWN

Librarian

STATISTICS OF THE LIBRARY

Number of books issued for home use at the Memorial Hall	40516
Number issued at Ballardvale	6477
Total for the year of 1922	46993
Number of borrower's cards actually in use	2613
Books added by purchase	567
Books added by gift	87
Total accessions	654
Books withdrawn, worn out, etc.	316
Total number of books in the library	25763
Volumes rebound	208
Volumes bound, periodicals, etc.	42

BALLARDVALE

Number of books issued for home use	6477
Number of cards in use	360
Books added by purchase	42
Books added by gift	12
Total accessions	54
Books now belonging to the branch	1762

GIFTS

Gifts of books and pamphlets are acknowledged from state and government departments, from other libraries, from the Town of Andover, the A. V. I. S. and from the following individuals.

Mrs. George Abbot; Judge C. U. Bell; Mrs. Walter Buck; Miss Emily Carter; Alexander Dick; J. C. Graham; Mrs. Herbert Green; Mrs. M. H. Gutterson; Rev. C. W. Henry; R. S. Herrick; Loring Higgins; Miss A. W. Kuhn; Mrs. Andrew Lawrie; Mrs. Alice Lewis; Mrs. E. W. Lloyd; Mission Study Group, Christ Church; Alfred Ripley; George B. Ripley; Mrs. J. P. Taylor.

INFORMATION FOR USERS OF THE LIBRARY

The Memorial Hall Library is open every day except Sundays and legal holidays from 9 to 12.30 in the morning, and from 3 to 9 in the afternoon and evening.

Any resident of Andover over ten years of age may have a library card upon filling out an application blank. Children in grades below the Punchard School are required to have their applications endorsed by both parent and teacher.

All grown people are allowed to take any reasonable number of books, provided that only one is a seven-day book. The Punchard pupils are permitted to borrow two, one fiction and one non-fiction.

Books are issued for fourteen days, *the date upon which the book is due* being stamped plainly on the "date due" slip at the time of issue. A book kept overtime incurs a fine of two cents for every day overdue. A few of the books most in demand are issued for seven days only. All these are labeled upon the book pocket, "Seven day book." Books lost or damaged must be paid for.

Seven day books are not renewed or reserved for anyone. Other books may be renewed if no one else has asked for them, and if a work not fiction is especially desired for any serious purpose, notice of its return to the library will be sent on request.

The shelves of the whole library are open to all grown people. The books are arranged according to subjects, and it is often much more satisfactory to go to the shelves and examine the books than to depend upon the catalogue.

The new books are listed at intervals in the weekly paper, and cumulated in the yearly library report, but the only complete record is the card catalogue. This catalogue is arranged alphabetically like a dictionary. To find whether any given book is in the library, look for it under the surname of the author, or under its title. The right-hand drawers of the case contain a second arrangement of cards where the books are entered according to the subjects of which they treat.

The new books purchased each month are placed for some weeks in a special case on the north side of the reading room, so that the most recent additions to the library may be found

there. The library buys only a limited amount of new fiction but it tries to fill the wants of the community in regard to other books desired. People are invited to suggest for purchase the titles of books they wish.

The library staff is always glad to answer questions or in any way to help visitors find what they want.

LIST OF PERIODICALS AND NEWSPAPERS TAKEN FOR THE READING ROOM

American monthly review of reviews

Atlantic monthly

Blackwood's magazine

Bookman

Book review digest

Catholic world

Century

Country gentleman

Christian Endeavor world (gift)

Country life in America

Cumulative book index

Etude

Forum

Garden magazine (gift)

Guide to nature (gift)

Harper's magazine

House beautiful (gift)

India rubber world (gift)

International studio (gift)

Ladies' home journal

Library journal

Life

Literary digest

Littell's living age

London weekly Times

Missionary review of the world

National geographic magazine

Nineteenth century
North American review
Open road
Outing
Outlook
Popular mechanics
Public libraries
Readers' guide to periodical literature
St. Nicholas
School arts magazine
Scientific American
Scribner's magazine
Survey
Textile world (gift)
The Woman Citizen
Woman's home companion
World's work
Youth's companion
Andover Townsman
Boston Herald
Boston Transcript
Christian Science Monitor
Lawrence Telegram
New York Times

NEW BOOKS ADDED DURING 1922

State and government documents are not listed. Duplicates, replacements and books for the Ballardvale Branch are also omitted.

*(Books marked * are gifts)*

PERIODICALS

051 R32	American monthly review of reviews, v. 64, 65.
051 A881	Atlantic monthly, v. 128, 129.
052 B56	Blackwood's Edinburgh magazine, v. 209-211.
051 B64	Bookman, v. 53-55.
051 C33	Century, v. 102, 103.
051 F77	Forum, v. 66, 67.
716 G16	Garden magazine, v. 33-35.
051 H23	Harper's magazine, v. 143, 144.
705 H81	House beautiful, v. 49-51.
705 I61	International studio, v. 73, 74.
020.5 L61	Library journal, v. 46.
051 L71	Littell's living age, v. 309-313.
910.5 N21	National geographic magazine, v. 40-41.
052 N62	Nineteenth century, v. 89-91.
051 N81	North American review, v. 214-215.
051 O94	Outlook, v. 128-131.
621 P81	Popular mechanics, v. 36, 37.
020.5 P96	Public libraries, v. 26.
370.5 S35	School arts magazine, v. 21.
605 S416	Scientific American, v. 125, 126.
051 S434	Scribner's magazine, v. 70, 71.
051 W89	World's work, v. 42, 43.

ETHICAL AND RELIGIOUS BOOKS

(Purchased chiefly from the Phillips Fund)

261 B11	Babson, R. W. Future of the churches.
174 B11	Babson, R. W. Religion and business.
395 B15	Bailey, M. E. Value of good manners.
268 B17b	*Baker, E. D. Beginners' book in religion.
268 B46n	Betts, G. H. New programme of religious education.
248 B64	*Borgongini-Duca, Francis. The word of God.
274.2 C15	*Campbell, Douglas. The Puritan in Holland, England and America. 2v.
268 C71s	*Colson, Elizabeth. Second primary book in religion.

- 173 C79
172 D78
204 E47
268 F86
232 G51
612 H14
268 H25
150 H27
131 K58
237 L14
220.92 M43
150 M57
280 P23
173 P27
252 P31w
150 R56
173 S42
174 S63
230 S75
268 T36
174 T91
230 V51
150 W27
- Cope, H. F. The parent and the child.
Drake, Durant. America faces the future.
Ellwood, C. A. Reconstruction of religion.
*Frayser, N. L. Followers of the marked trail.
Glover, T. R. Jesus in the experience of men.
Hall, G. S. Senescence.
Hartley, Gertrude. Use of projects in religious
Hazlitt, Henry. Way to will-power.
King, Basil. Conquest of fear.
Lake, Kirsopp. Immortality and the modern
Mathews, Basil. Paul the dauntless.
Myerson, Abraham. Foundations of personality.
Parks, Leighton. Crisis of the churches.
Patri, Angelo. Child training.
Peabody, F. G. Sundays in college chapels since the war.
Robinson, J. H. The mind in the making.
Scott, M. F. Meeting your child's problems.
Slattery, C. L. The ministry.
Sperry, W. L. Disciplines of liberty.
*Thomas, F. L. First book in hymns and worship.
Tweedy, H. H. Christian work as a vocation.
Vedder, H. C. Fundamentals of Christianity.
Woodworth, R. S. Pshchology.

EDUCATION AND ECONOMICS

- 345.12 B41
345 B63
372 B64
353 C67
- 331.4 F82
304 H18
365 L58
- 353.9 M45
331.4 P22
174 S64
379.2 S85
301 S86
373 V28
330 Z66
- *Bell, C. U. comp. Index to penalties for crime.
Bolles, A. S. Putman's handy law book.
Bonser, F. G. Elementary school curriculum.
Colegrove, Kenneth. American citizens and their govern-
ment.
Four years in the underbrush.
Hammond & Jenks. Great American issues.
*Lewis, B. G. The offender and his relations to law and so-
ciety.
Mayo, Katherine. Mounted justice.
Parker, C. S. Working with the working woman.
Smith, H. L. Your biggest job; school or business.
Stewart, C. W. Moonlight schools.
Stoddard, Lothrop. Revolt against civilization.
Van Denberg, J. K. Junior high school idea.
Zimand, Savel, comp. Modern social movements.

BOOKS ON SCIENCE

- 598.2 G42
523 H13
590 H78m
598.2 M42
530 R75
590 S42w
- Gilmore, A. F. Birds of field, forest and park.
Hale, G. E. The new heavens.
Hornaday, W. T. Mind and manners of wild animals.
Mathews, F. S. Field book of wild birds and their music.
Rougier, Louis. Philosophy and the new physics.
Scoville, Samuel. Wild folk.

- 591.5 S77 Squier, E. L. Wild heart.
 504 T37 Thomson, J. A. ed. Outline of science. 4v.
 599 U56 Underwood, W. L. Wild brother.
 537 W68 Willoughby, G. A. Practical electricity for beginners.

FARM AND HOME MANAGEMENT

- 638 D74 Douglass, B. W. Every step in bee-keeping.
 641 F22f Farmer, F. M. Food and cookery for the sick and convalescent.
 641 G96 Gurney, L. M. Things Mother used to make.
 645 J13 Jakway, B. C. Principles of interior decoration.
 613.7 L51 Lee, G. S. Invisible exercise.
 645 N81 Northend, M. H. Art of home decoration.
 641 S86 Stockbridge, B. E. L. Practical cookbook.
 640 S91 Streeter, Bertha. Home-making simplified.
 630 W93 Wright, Richardson. Truly rural.

MECHANICAL AND USEFUL ARTS

- 622 B46 Best, W. N. Burning liquid fuel.
 654 B85p Bucher, E. E. Practical wireless telegraphy.
 671 C15 Campbell, Lorn. Oxy-acetylene welding manual.
 654 C64 Cockaday, L. M. Radio-telephony for everyone.
 621.1 C87 Croft, Terrill. Steam-boilers.
 600 F74 Forbes, W. C. Romance of business.
 655 G86 Gress, E. G. American hand-book of printing.
 621.1 H62 *Hiscox, G. D. Modern steam engineering.
 654 L36 Lauer & Brown. Radio engineering principles.
 654 L56 Lescarbours, A. C. Radio for everybody.
 654 L58 Lewis, E. H. A. B. C. of vacuum tubes.
 608 M16 McFee, I. N. C. Stories of American invention.
 621.1 M55 *Merriman, Mansfield. Strength of materials.
 621 N79s *Norris & Smith. Shop arithmetic.
 654 S67 Snodgrass & Camp. Radio receiving for beginners.
 654 V61h Verrill, A. H. The home radio.
 654 W17 Walter, L. H. Directive wireless telegraphy.
 654 Y27 Yates & Pacent. Complete radio book.

FINE ARTS

- 715 A64 Apgar, A. C. Ornamental shrubs of the United States.
 791 B63 Bollman, G. & H. Motion pictures for community needs.
 745 D42f *Dennison Mfg. Co. How to make crepe paper flowers.
 745 D42c *Dennison Mfg. Co. How to make paper costumes.
 745 D42s *Dennison Mfg. Co. Sealing wax art.
 745 D42p *Dennison Mfg. Co. Weaving with paper rope.
 745 E12 Earle, Olive Lampshades.
 793 G27i Geister, Edna. Ice-breakers and the ice-breaker herself.
 793 G27t Geister, Edna. It is to laugh
 716 K581 King, L. Y. The little garden.
 728 O94 Outwater, J. G. Designs for American homes.

LITERATURE, ESSAYS, AND POETRY

- 843 B66 *Boulenger, Marcel. Marguerite.
 820.9 B79n Brooke, S. A. English literature from the beginning.
 822.08 C66 Cohen, H. L. comp. One-act plays by modern authors.
 824 E13s Eastman, Max. The sense of humor.
 824 F16 *Fairless, Michael. The roadmender.
 822.08 F95 Fuess & Stearns, comp. Little book of society verse.
 808 H71 Holliday & Van Rensselaer. Business of writing.
 843 J21 *Jaloux, Edmond. La fin d'un beau jour.
 843 L131 *Lafage, Leon. Les abeilles mortes.
 827 L46d Leacock, Stephen. My discovery of England.
 808 L55 Leonard & Fuess. Good writing.
 793 L88 Lord, Katherine. Plays for school and camp.
 824 M16 McFee, William. An ocean tramp.
 810.9 M31 Manly & Rickert. Contemporary American literature.
 820.9 M31 Manly & Rickert. Contemporary British literature.
 821 M37 Masefield, John. Poems and plays.
 822 M63 Milne, A. A. Three plays.
 824 N48a Newton, A. E. Amenities of book collecting.
 824 O96 *Overton, Grant. When winter comes to Main Street.
 808 R34 Rhodes, C. E. Effective expression.
 824 R51f *Ritchie, A. I. T. From friend to friend.
 821 R56 Robinson, E. A. Collected poems.
 808.3 S63 Slosson & Downey. Plots and personalities.
 827 S84 Stewart, D. O. Parody outline of history.
 824 W2441 Warner, F. L. & G. Life's minor collisions.
 822 W64 Wilde, Percival. Eight comedies for little theatres.

DESCRIPTION AND TRAVEL

- 918.8 B39e Beebe, William. Edge of the jungle.
 918.5 E51 Bingham, Hiram. Inca land.
 917.1 D28 Davidson, L. L. A winter of content.
 917.9 D64 Dixon, W. H. Westward hoboos.
 917.8 E14 Eaton, W. P. Skyline camps.
 916.6 F74 Forbes, Rosita. Secret of the Sahara.
 917.8 H12 Hagedorn, Hermann. Roosevelt in the Bad Lands.
 914.7 H24 Harrison, Marguerite. Marooned in Moscow.
 917.8 H31 Haworth, P. L. Trail-makers of the northwest.
 914.2 H76 Hopkins, R. T. Thomas Hardy's Dorset.
 917.446 L43 Lawrence, R. M. Old Park Street and its vicinity.
 917.1 L86 Longstreth, T. M. The Laurentians.
 914.2 M43 Matz, B. W. Inns and taverns of "Pickwick."
 914.41 M64 Miltoun, Francis. Rambles in Brittany.
 914.42 M64 Miltoun, Francis. Rambles in Normandy.
 910.4 N97 Nutting, W. W. Track of the "Typhoon."
 915.6 R44 Rihbany, A. M. Wise men from the east and the west.
 917.8 R65 Rollins, P. A. The cowboy.
 919.1 R91 *Russell, C. E. Outlook for the Philippines.
 915.69 S63 *Slattery, Margaret. New paths through old Palestine.

- 910 S65 Smith, Sir Ross. 14,000 miles through the air.
 917.3 S89 Stearns, H. F. ed. Civilization in the United States.
 917.98 S93w *Stuck, Hudson. Winter circuit of our Arctic coast.
 918.1 T59 Tomlinson, H. M. The sea and the jungle.
 917.95 W65 Wilkinson, Marguerite. Dingbat of Arcady.

BIOGRAPHY

- 920 A13 Abbott, Lyman. Silhouettes of my contemporaries.
 92 A875 *Atkinson, Wilmer. Autobiography.
 92 B252 *Barnabee, H. C. Reminiscences.
 92 B286b Barton, W. E. Life of Clara Barton. 2v.
 92 M355m Beveridge, A. J. Life of John Marshall. 4v.
 92 C167 Cantacuzene, Princess. My life here and there.
 92 D293 Davis, J. J. The iron puddler.
 92 D441 Depew, C. M. My memories of eighty years.
 928 E47 Ellsworth, W. W. Golden age of authors.
 92 F753 Ford, J. L. Forty odd years in the literary shop.
 922 P16 Gentleman with a duster. Painted windows.
 92 P146 Hendrick, B. J. Life and letters of W. H. Page. 2v.
 92 F561 Howe, M. A. DeW. Memories of a hostess.
 92 L241 Lane, A. W. ed. Letters of Franklin K. Lane.
 92 L861 Longfellow, E. W. Random memories.
 92 W211 *Martyn, Charles. Life of Artemus Ward.
 92 M381 Mason, Arthur. Ocean echoes.
 92 M823 Morgenthau, Henry. All in a life-time.
 92 H536 Perry, Bliss. Life and letters of Henry Higginson.
 92 S152 *Saint-Saens, Camille. Musical memories.
 92 B795 *Sharp, J. C. John Cotton Brooks.
 92 S715 Soskice, Mrs. J. M. H. Chapters from childhood.
 92 D399 Stirling, A. M. W. William DeMorgan and his wife.
 92 W274t Thayer, W. R. George Washington.
 92 B657 Tinker, C. B. Young Boswell.
 922 W15g Walker, Williston. Great men of the Christian church.
 92 S392w Wasielwski, J. W. von. Life of Robert Schumann.
 92 W319 *Watterson, Henry. "Marse Henry", an autobiography.
 2v.

HISTORY

- 974.2 B48 Bigelow, E. V. Brief history of the Isles of Shoals.
 972 D58 *Dillon, E. J. Mexico on the verge.
 940.91 D85 *Duane, J. T. Dear old K; Company K, 101st infantry.
 991.4 H24 *Harrison, F. B. Corner-stone of Philippine independence.
 949.7 M87 *Mowrer, P. S. Balkanized Europe.
 940.91 R561 *Robinson, W. H. Forging the sword.
 947 S73g *Spargo, John. Greatest failure in all history.
 947 S73r *Spargo, John. Russia as an American problem.

FICTION

- Adams, S. H. Success.
 Adams, S. H. The unspeakable Perk.
 Andrews, M. R. S. His soul goes marching on.

Ashmun, Margaret.	Topless towers.
Atherton, Gertrude.	*Sisters-in-law.
Bachelor, Irving.	In the days of poor Richard.
Bailey, H. C.	Call Mr. Fortune.
Bailey, Temple.	The gay cockade.
Baldwin, Faith.	*Mavis of Green Hill.
Barnett, Ada.	Man on the other side.
Bassett, S. W.	Granite and clay.
Beck, L. A.	The ninth vibration, etc.
Benet, W. R.	The first person singular.
Bennett, Arnold.	Mr. Prohack.
Benson, E. F.	Lovers and friends.
Bindloss, Harold.	Man from the wilds.
Blackwood & Wilson.	Wolves of God, etc.
Bone, D. W.	The brassbounder.
Bottome, Phyllis.	The kingfisher.
Bridges, Victor.	Greensea island.
Bryant, Marguerite.	Richard.
Buckrose, Mrs. J. E.	House with the golden windows.
Buckrose, Mrs. J. E.	The privet hedge.
Burnett, Mrs. F. H.	*Head of the House of Coombe.
Burnett, Mrs. F. H.	*Robin.
Burnham, C. L.	The key note.
Byrne, Donn.	Messer Marco Polo.
Caine, Hall.	*Master of man.
Cameron, Margaret.	Golden rule Dollivers.
Cooper, F. L.	Captain Pott's minister.
Cooper, H. St. J.	Garden of memories.
Curwood, J. O.	Honor of the big snows.
Daviess, M. T.	The golden bird.
Deland, Margaret.	The vehement flame.
De la Mare, Walter.	Memoirs of a midget.
De la Mare, Walter.	The return.
De la Pasture, E. E. M.	Humbug.
De Morgan, William.	Old man's youth.
Diver, Maud.	Far to seek.
Doubleday, Roman.	Hemlock Avenue mystery.
Dowdall, Mrs. M. F. H.	Three loving ladies.
Durand, Ralph.	The mind healer.
Evarts, H. G.	Settling of the sage.
Farnol, Jeffery.	Martin Connigsby's vengeance.
Fisher, D. C.	Rough-hewn.
Fletcher, J. S.	The borough treasurer.
Fletcher, J. S.	Dead men's money.
Fletcher, J. S.	Herapath property.
Fletcher, J. S.	Middle Temple murder.
Fletcher, J. S.	Orange yellow diamond.
Footner, Hulbert.	Woman from outside.
French, J. L. ed.	Great sea stories.
Galsworthy, John.	In chancery.
Galsworthy, John.	To let.

Gaul, Avery.	Five nights at the Five Pines.
Gerould, K. F.	Lost valley.
Gibbs, George.	House of Mohun.
Gordon, C. W.	To him that hath.
Grey, Zane.	To the last man.
Harker, L. A.	The bridge across.
Harrison, H. S.	Saint Teresa.
Hémon, Louis.	Maria Chapdelaine.
Hepburn, E. N.	Wings of time.
Hext, Harrington.	Number 87.
Holland, B. T.	A vagrant tune.
Holt, Isabella.	The Marriotts and the Powells.
Hough, Emerson.	The covered wagon.
Hudson, J. W.	Abbé Pierre.
Hutchinson, A. S. M.	*The clean heart.
Hutchinson, A. S. M.	*This freedom.
Ingram, E. M.	Thing from the lake.
Johnson, Owen.	Skippy Bedelle.
Johnston, Sir Harry	Man who did the right thing.
Jordan, Elizabeth.	The blue circle.
Jordan, Kate	Trouble-the-house.
Kaye-Smith, Sheila.	*Johanna Godwin.
Kelley, E. M.	Turn-about Eleanor.
King, Basil.	Thread of flame.
Lagerlöf, Selma.	The outcast.
Laing, Janet.	Wintergreen.
Lee, Jeannette.	Uncle Bijah's ghost.
Lewis, Sinclair.	Babbitt.
Lincoln, J. S.	Fair harbor.
Lindsay, William.	The backsliders.
Locke, W. J.	Tale of Triona.
Lutz, G. L. H.	City of fire.
Lutz, G. L. H.	Voice in the wilderness.
Lynde, Francis.	Fire-bringers.
Lynde, Francis.	Pirates' hope.
Macaulay, Rose.	Dangerous ages.
Mackenzie, Compton.	The altar steps.
Marshall, Archibald.	Big Peter.
Marshall, Edison.	*Shepherds of the wilds.
Marshall, Edison.	Sky-line of spruce.
Marshall, Edison.	Snowshoe trail.
Milne, A. A.	Mr. Pim.
Milne, A. A.	Red house mystery.
Mitchell, R. C.	Jane journeys on.
Mitchell, R. C.	Play the game.
Mundy, Talbot.	Winds of the world.
Norris, Kathleen.	*Certain people of importance.
Oemler, M. C.	Two shall be born.
Oldmeadow, Ernest.	Coggin.
Olmstead, Florence.	This little world.
Onions, Oliver.	Tower of oblivion.

Onions, Mrs. Oliver.	The arrant rover.
Onions, Mrs. Oliver.	Three of hearts.
Onions, Mrs. Oliver.	Wrong Mr. Right.
Oppenheim, E. P.	The devil's paw.
Oppenheim, E. P.	The evil shepherd.
Oppenheim, E. P.	Great Prince Shan.
Phillpotts, Eden.	The grey room.
Pickthall, M. L. C.	The bridge.
Poole, Ernest.	Beggars' gold.
Pryde, Anthony.	*Ordeal of honor.
Pryde & Weekes.	The purple pearl.
Putnam, N. W.	West Broadway.
Quick, Herbert.	Vandemark's folly.
Rhodes, E. M.	Copper streak trail.
Richmond, Grace.	Four-square.
Rinehart, M. R.	The breaking point.
Robinson, E. M.	Enter Jerry.
Sabatini, Rafael.	Captain Blood.
Sabatini, Rafael.	Scaramouche.
Sampson, E. S.	The shorn lamb.
Sedgwick, A. D.	*Adrienne Toner.
Singmaster, Elsie.	*Bennett Malin.
Snaith, J. C.	The Van Roon.
Sterrett, F. R.	These young rebels.
Tarkington, Booth.	Gentle Julia.
Taylor, K. H.	Modern trio in an old town.
Taylor, K. H.	Real stuff.
Terhune, Anice.	*Eyes of the village.
Turner, J. H.	Where your treasure is-
Wallace, Edgar.	Jack o' judgment.
Walpole, Hugh.	The cathedral.
Watts, M. S.	House of Rimmon.
Weir, F. R.	Colinette of Redmoon.
Wells, Carolyn.	Man who fell through the earth.
Wharton, Edith.	Glimpses of the moon.
Widdemer, Margaret.	Year of Delight.
Wilson, H. L.	Merton of the movies.
Willsie, Honoré.	Judith of the godless valley.
Wodehouse, P. G.	Indiscretions of Archie.

CHILDREN'S BOOKS—NON-FICTION

92 B634d	Bok, Edward. A Dutch boy fifty years afterwards.
395 B72	Braddy, Nella. Young folks' cyclopedia of etiquette.
398.4 G41	Gilbert, Henry. Robin Hood.
914.8 H14	Hall, J. O. When I was a boy in Norway.
937 L21	Lamprey, Louise. Children of ancient Rome.
398.4 O43	Olcott, H. M. The whirling king, etc.
914.94 P27	Patteson, S. L. When I was a girl in Switzerland.
051 S147	St. Nicholas, v. 48, pt. 2, v. 49, pt. 1.
808.9 S64mo	Smith, E. S. comp. More mystery tales for boys and girls.

790 S67
901 V32s
920 T16p
92 L633tb
92 B646w

Snow & Froelich. A hundred things a girl can make.
Van Loon, Hendrick. Story of mankind.
Tappan, E. M. Heroes of progress.
Tarbell, I. M. Boy scouts' life of Lincoln.
White, S. E. Daniel Boone.

STORIES FOR CHILDREN

Aldon, Adair.	Hill of adventure.
Ashmun, Margaret.	Including Mother.
Baker, Olaf.	Dusty Star.
Barbour, R. H.	Metipom's hostage.
Barbour, R. H.	The Turner twins.
Blanchard, L. M.	Chico.
Brill, E. C.	When lighthouses are dark.
Brown, E. A.	The Chinese kitten.
Browne, Belmore.	The frozen barrier.
Canfield, F. C.	The big tent.
Dix, B. M.	The turned-about girls.
Duganne, Phyllis.	Ruthie.
Dyer, R. O.	Little people of the garden.
Eaton, W. P.	Boy scouts at Crater Lake.
Fairstar, Mrs.	Memoirs of a London doll.
Hartley, G. I.	Boy hunters in Demerara.
Hough, Emerson.	Young Alaskans on the Missouri.
Hudson, W. H.	A little boy lost.
Lindsay, Maud.	Little Missey.
Lofting, Hugh.	Voyages of Doctor Dolittle.
Perkins, L. F.	The Swiss twins.
Phillips, E. C.	The Christmas light.
Pier, A. S.	David Ives.
Pollock, F. L.	The woods rider.
Price, E. B.	Fortune of the Indies.
Schultz, J. W.	Trail of the Spanish horse.
Schultz, J. W.	The war-trail fort.
Spyri, Johanna.	Mäzli.
Turpin, Edna.	The old mine's secret.
Wheeler, F. Rolt-	Boy with the U. S. miners.
Wheeler, F. Rolt-	The wreck-hunters.
White, E. O.	Peggy in her blue frock.

REPORT OF CUSTODIAN JOHN CORNELL ART GALLERY

To the Trustees of the Memorial Hall Library.

GENTLEMEN: I herewith submit the report of the gallery for the twelve months ending December 31, 1922.

The closing of 1922 finds the gallery with a record of 212 visitors, the number being nearly equally divided between adults and children, the former registering 100, and the latter 112.

It is interesting to note that this record is almost the same as that of 1918, the record then being 211. There were excellent reasons at that time for the small attendance which do not hold now.

Thirteen pictures, representative of the different schools of painting, have been loaned, for the winter, to the Punchard Free School to occupy wall spaces pleading eloquently for decoration. This admirable idea was conceived and executed by Mrs. F. P. McClellan, head of the Art Department of the November Club, ably assisted by Mrs. G. M. R. Holmes. The pictures were hung the week before Christmas. Their return to the gallery in the spring will emphasize anew the fact that the equipment of our new High School is not complete. Here is a clear field for graduating classes. It is certain that this bringing of a portion of the gallery to the pupils will result in an increased interest in the gallery as a whole. A recent caller, resident for many years in Washington and well acquainted with many of the art treasures in our Capital, expressed much satisfaction and pleasure in the Cornell collection.

Respectfully submitted,

ABBIE S. DAVIS

Custodian

TOWN OF ANDOVER

TWENTY-SECOND ANNUAL
REPORT

OF THE

BOARD OF PUBLIC WORKS

EMBRACING THE THIRTY-THIRD ANNUAL REPORT OF
WATER COMMISSIONERS AND TWENTY-
FIFTH ANNUAL REPORT OF
SEWER COMMISSIONERS

FOR THE YEAR ENDING

DECEMBER 31, 1922

ANDOVER, MASS.
THE ANDOVER PRESS
1923

WATER COMMISSIONERS

1889—1899

*JOHN H. FLINT

*JAMES P. BUTTERFIELD
*FELIX G. HAYNES

SEWER COMMISSIONERS

1893—1894

*WM. S. JENKINS
*JOHN L. SMITH
CHARLES E. ABBOTT

1894—1899

*WM. S. JENKINS
*JOHN L. SMITH
*JOHN E. SMITH

BOARD OF PUBLIC WORKS

1899—1902

*JOHN H. FLINT
*WM. S. JENKINS
*JOHN L. SMITH
*JAMES P. BUTTERFIELD
*FELIX G. HAYNES

1903—1906

*JOHN L. SMITH
*FELIX G. HAYNES
*JOHN W. BELL
*LEWIS T. HARDY
JAMES C. SAWYER

1906—1907

*FELIX G. HAYNES
*JOHN W. BELL, Treas.
JAMES C. SAWYER, Sec'y
*LEWIS T. HARDY
*HARRY M. EAMES

1907—1908

*FELIX G. HAYNES
*JOHN W. BELL, Treas.
JAMES C. SAWYER, Sec'y
*LEWIS T. HARDY
ANDREW McTERNEN

1908—1912

*LEWIS T. HARDY
*JOHN W. BELL, Treas.
JAMES C. SAWYER, Sec'y
ANDREW McTERNEN
WILLIS B. HODGKINS

1913—1914

*LEWIS T. HARDY ('16)
BARNETT ROGERS ('16)
ANDREW McTERNEN ('15)
THOS. E. RHODES, Sec'y ('14)
WILLIS B. HODGKINS, Treas. ('15)

1914—1916

THOS. E. RHODES ('19)
BARNETT ROGERS ('16)
*LEWIS T. HARDY ('16)
ANDREW McTERNEN, Sec'y ('18)
WILLIS B. HODGKINS, Treas. ('18)

1916—1917

BARNETT ROGERS ('19)
THOS. E. RHODES ('17)
ANDREW McTERNEN ('18)
CHAS. B. BALDWIN, Sec'y ('19)
WILLIS B. HODGKINS, Treas. ('18)

1917—1918

BARNETT ROGERS ('19)
THOS. E. RHODES ('20)
ANDREW McTERNEN ('18)
CHAS. B. BALDWIN, Sec'y ('19)
WILLIS B. HODGKINS, Treas. ('18)

1918—1919

BARNETT ROGERS ('22)
ANDREW McTERNEN ('21)
PHILIP L. HARDY ('21)
CHAS. B. BALDWIN, Sec'y ('22)
THOS. E. RHODES, Treas. ('20)

1919-1920-1921

ARNETT ROGERS ('22)
WILLIAM D. McINTYRE ('21)
ARTHUR T. BOUTWELL ('22)
PHILIP L. HARDY Sec'y ('21)
THOS. E. RHODES, Treas. ('23)

1922

THOMAS E. RHODES ('23)
PHILIP L. HARDY ('24)
WM. D. McINTYRE, Treas. ('24)
ARTHUR T. BOUTWELL ('25)
EDWARD SHATTUCK ('25)

SUPERINTENDENT

FRANK L. COLE

* Deceased.

REPORT OF BOARD OF PUBLIC WORKS

To the Citizens of the Town of Andover, Mass.:

Your Board of Public Works herewith submits its annual report for the year ending December 31, 1922.

This is the tenth annual report of the Board under its reorganization and includes the twenty-sixth annual report of the sewer system, the thirty-fourth of the water system and the tenth of the Highway and Park Departments, since they have been under the jurisdiction of the Board of Public Works.

ORGANIZATION

Mr. Arthur Boutwell was re-elected to the Board for the term of three years and Mr. Edward Shattuck was elected for the same period.

The Board met on March 13, 1922, and organized as follows:

Chairman, T. E. Rhodes.

Secretary, Philip L. Hardy.

Treasurer, William McIntyre.

Mr. Frank L. Cole was appointed as Superintendent for one year and George Dick as his assistant.

WATER DEPARTMENT

During the past year there were two extensions made to the water main, one on Tewksbury Street, Ballardvale, Mass., and one on Carmel Road, besides additions made in Shawsheen Village, the cost of which was borne by the American Woolen Company.

The 6-inch main on Lowell and Haverhill Streets was replaced by a 10-inch main; the cost of this work was paid for from receipts of the water bonds which were issued in 1922. There is still approximately two thousand (2000) feet of this main to lay. The

cost of these various jobs together with the exact amount of pipe laid will be found in the Superintendent's report.

In connection with the new construction on Main Street all the old water service pipes were renewed and the old style hydrants replaced. There were two new hydrants added in West Andover near valuable property of the American Woolen Company.

The detailed account of the expenditures for this department will be found in the Superintendent's report. The greater part of the appropriation and receipts from water rates was used in regular maintenance expense.

During the coming year we expect to install a new pumping unit at the Haggetts Pond station, the cost of which will be carried by money received from the sale of bonds remaining from the forty thousand (\$40,000.00) dollars issued last year.

We feel that the Water Department is in very good shape. A very large percentage of our services are metered and we expect this spring to install a measuring device on the main coming from the Haggetts Pond station, by means of which we may be able to check up the efficiency of the pumps, as well as the presence of any large leaks in our mains.

The Board would recommend the sum of (\$2500.00) twenty five hundred dollars and receipts for service pipe and the sum of thirty-seven thousand (\$37,000.00) dollars for maintenance for the ensuing year.

A detailed account of the estimated expenditures in the maintenance of the Water Department will be found in the Superintendent's report.

THE WATER BONDED DEBT

The bonded debt of the water system on January 1, 1922, was one hundred and seven thousand dollars (\$107,000.00). During the year 1922 there was a Forty thousand dollar (\$40,000.00) issue of bonds floated to be used in making additions and changes in this department, which added to the existing bonded debt makes the total bonded debt of this system January 1, 1923, one hundred and thirty-one thousand dollars, (\$131,000.00).

Of this indebtedness \$30,000.00 is redeemable by the sinking fund which on January 1, 1923, amounted to \$27,410.00.

The sum of \$750.00 should be appropriated for the sinking fund for the year 1923.

SEWER DEPARTMENT

There has been very little work done in the construction of new sewers during the past year with the exception of sewers laid and paid for by the American Woolen Company. The sewer on Lowell Street which was started late in 1921 and upon which the work was stopped on account of weather conditions, was finished in the spring of 1922.

As we were directed by a vote of the town at the last March meeting, we have had the question of sewage disposal of the Town investigated by expert engineers. The firm of Weston & Sampson of Boston Mass., was employed to do this work and we are giving below an extract from their report.

REPORT OF WESTON & SAMPSON

On July 26, 1922, your Honorable Board instructed us to make a study of methods for disposing of the sewage of the Town of Andover, and to give our opinion regarding the most feasible method for doing this work. We have completed our study, and present the following report: —

Present Conditions

It is unnecessary to state that the present conditions at the sewage disposal works, apart from those resulting from the development of Shawsheen Village, call for relief. The present works treat only the portion of the sewage of the Town discharged through the high-level sewer and produce a low-grade effluent as the accompanying results of analysis of a sample collected on September 23, as well as those made by the Department of Health, indicate. The remaining sewage flows to the pumping station at Shawsheen Village, and instead of being pumped through the force-main to the disposal works as was planned, is discharged directly into the river without treatment.

We are informed that the American Woolen Company proposes to establish not only large mills and a mill village, but the offices and residences of its executives. The part of the village already constructed is good evidence of the serious purpose of the company.

It is the duty of the Town to care for the sewage from this village, and the American Woolen Company has offered to contribute to the cost of a sewer to the Merrimack River provided the waste from the Shawsheen Mills be taken care of with the sewage from the whole town. Therefore, not only the disposal of the domestic sewage, but of the industrial waste, must be considered.

Estimated Population and Volume of Sewage

In making our estimates of population and quantity of sewage, we have taken into consideration the plans of the American Woolen Company and the probable development of Shawsheen Village. Should the development of this village be as its projectors plan, the Town of Andover, which has grown slowly in the past, may be expected to grow rapidly in the future. Our estimates of population and volumes of sewage are given in the following table and are illustrated by the following diagram:

TABLE 1—ESTIMATED POPULATION AND VOLUME OF SEWAGE

Year	Population	VOLUMES OF SEWAGE	
		Gallons per capita per Day	Gallons per Day
1922	8,490	83.9	711,000
1923	9,010	84.2	759,000
1924	9,590	84.8	815,000
1925	10,100	85.1	867,000
1926	10,600	85.7	908,000
1927	11,190	86.1	963,000
1928	11,700	86.6	1,012,000
1929	12,130	87.1	1,057,000
1930	12,720	87.7	1,115,000
1931	13,270	88.2	1,170,000
1932	13,800	88.9	1,226,000
1933	14,300	89.4	1,278,000
1934	14,850	89.9	1,334,000
1935	15,350	90.4	1,387,000
1936	15,900	90.9	1,445,000
1937	16,360	91.4	1,495,000
1938	16,950	92.0	1,560,000
1939	17,400	92.4	1,609,000
1940	18,000	92.9	1,671,000
1941	18,450	93.4	1,722,000
1942	19,000	93.9	1,783,000
1943	19,550	94.4	1,845,000
1944	20,100	94.9	1,906,000
1945	20,600	95.4	1,965,000
1946	21,100	96.0	2,025,000
1947	21,600	96.3	2,080,000
1948	22,100	97.0	2,142,000
1949	22,600	97.4	2,200,000
1950	23,100	98.0	2,265,000

Sewage Disposal Schemes

We have made studies of several schemes of sewage disposal which we have named as follows:

<i>Scheme</i>	<i>Brief Description</i>
---------------	--------------------------

- | | |
|---|---|
| A | Imhoff Tank, Trickling Filters and Appurtenances, located about 600 feet north of the present settling tank; first cost \$110,000.00. |
|---|---|

Scheme

Brief Description

- B Same as Scheme A, but located one half mile up the brook from the Shawsheen Village swimming pool, and requiring a force-main from the present pumping station and a sewer from the works to the Shawsheen River. First cost \$155,000.00.
- C Like Scheme A, but located on the triangular area north of the Shawsheen River in both Andover and Lawrence. First cost \$122,500.00.
- D Imhoff Tank to treat the total sewage, the treated sewage to be discharged on present sand beds, supplemented by a trickling filter and appurtenances. First cost \$80,000.00.
- E Discharged into Merrimack River through an outfall sewer from the present pumping station at Shawsheen Village, as suggested by John Franklin, C. E., supplemented after five years by treatment before discharge into the river in Imhoff tanks located as in Scheme C. First cost \$150,000.00; additional cost of tanks and beds, \$50,000.00.
- F Imhoff Tank with sludge beds located as in Scheme C, and discharging into Shawsheen River with sewer from tank to the Merrimack, to be built when volume equals 1 Mdg. First cost \$50,000.00. Additional cost \$135,000.00.
- G Same as Scheme E, without provision for tank treatment. First cost \$150,000.00.

Industrial Waste

We are informed by Mr. John Franklin, Engineer of Shawsheen Village, that the proposed Shawsheen Mills will discharge a maximum of 2,000,000 gallons of industrial waste daily. As most of this volume would be discharged within the ordinary working day of ten hours, a sewer capacity averaging 4,800,000 gallons in 24 hours would be required. However, as the discharge of waste may be at the rate of 4,000 gallons per minute or 5,760,000 gallons per day, a sewer capacity equivalent to this higher volume should be provided. A sewer for carrying the combined industrial waste and domestic sewage should have a capacity of from 8,500,000 to 9,000,000 gallons in twenty-four hours. This

is equivalent to a diameter of 24 inches. For the domestic sewage alone, a 16-inch sewer would suffice. The 16-inch sewer would cost \$150,000.00 and the 24-inch sewer \$230,000.00. Therefore the additional cost of sewer construction to care for industrial waste would be \$80,000.00.

It would be possible to use Imhoff Tanks and trickling filters and dispose of the industrial waste with the domestic sewage either on the present site or nearby, — Schemes A, B, C and D, — but because industrial waste would be more difficult to purify than domestic sewage, the cost of construction per million gallons of capacity, daily, would be increased 25% and the cost of operation by at least as much. This is because larger tank space and filter bed area and more labor are required for the more concentrated industrial waste.

Choice of Scheme

It is obvious that if the volume of sewage could be predicted with accuracy, the method of sewage disposal could be chosen readily. Consequently much depends upon the growth of Shawsheen Village, and good judgment must be used in this regard.

Without Shawsheen Village, Andover might be expected to grow but slowly for the next few years, afterwards more rapidly with the extension of the zone of suburban residence to the north of Boston. On the other hand, if we accept the predictions of some of the representatives of the American Woolen Company, the population may increase by 10,000 in less than ten years. Our estimates of population and of concomitant volumes of sewage represent our best judgment, based on existing evidence.

From the standpoint of cost, it would be cheapest for the Town to dispose of its sewage by passing it through settling tanks directly into the Shawsheen (Scheme F), until the volume of sewage should reach one million gallons a day, and afterwards to discharge it through an outfall sewer into the Merrimack River. This plan should be followed if it were believed that Shawsheen Village might not develop enough to warrant the expense of going to the Merrimack. But the development of Shawsheen Village would have to fall far short of the expectations of its promoters before it would be less economical to

construct an outfall sewer at once and give up the existing disposal works.

In order to carry out Scheme F, it would be necessary to take from the American Woolen Company land on the north side of the river which they have planned for other uses. Therefore it could not be carried out without the Company's approval. Furthermore, the alternate schemes, D, C, and E, which involve the disposal of the sewage on the present site or near it, also might interfere with the plans for Shawsheen Village because of the inevitable local nuisance of the works or the need for the land itself for development.

Therefore in view of all the facts, your engineers recommend the disposal of the sewage by discharge through an outfall sewer into the Merrimack River, Scheme G. For domestic sewage alone, including that from Shawsheen Village, a sewer 16 inches in diameter would be required. This size might be increased to care for manufacturing waste. Should purification by subsidence in tanks be required in the future, this could be effected, Scheme E, at an additional cost of about \$50,000.00.

Pollution of the River at Shawsheen Village

On January 6, as requested by your Honorable Board, we reported on the sanitary condition of the Shawsheen River. This report was the result of an intensive study of the river from Ballardvale to Shawsheen Village and included an investigation of the industrial plants at Ballardvale and below.

The results of our investigation show the Shawsheen River to be moderately polluted with sewage and with industrial wastes. No nuisance exists at the present time, but the appearance of the stream and its suitability for fine manufacturing would be bettered if a portion of the waste from each of the three lower plants could be diverted into the proposed trunk sewer, that from the Smith and Dove Manufacturing Company's mill and from the Tyer Rubber Company's factory through the Main Street sewer into the town system, and that from the Marland Mills through a private sewer connected with the Shawsheen Mill and thence pumped into the outfall sewer.

Conditions at Ballardvale are reasonably satisfactory at the present time. The time may come, however, when it shall be

advisable to dispose of the textile waste from the Ballardvale Mills by the usual tanks and beds, and the dye-factory waste from the Beaver Manufacturing Company by treatment with lime, followed by subsidence.

Because the conditions of Shawsheen River demand no special consideration at this time on the part of the Town, and because the mill owners probably possess proscriptive rights to discharge their wastes into the stream, the Town might well leave the question of the reception of a portion of the wastes from the Marland Mills into the outfall sewer with the waste from the Shawsheen Mills, to the two corporations immediately concerned.

The building of the outfall sewer would improve materially the character of the Shawsheen River below the existing disposal works.

Recommendations

As a result of their study, your engineers recommend that the Town of Andover construct an outfall sewer from Shawsheen Village to the Merrimack River, the sewer to be laid in the most economical location. It is further recommended that the size of this sewer from the Village to the river be increased to 24 inches to accommodate the industrial wastes from the Shawsheen Mills, provided the American Woolen Company assume its fair share of the cost of construction and operation. It is further recommended that the Town cooperate with the American Woolen Company by receiving into the outfall sewer under proper legal safeguards, a part of the waste from the Marland Mills along with the wastes from the Shawsheen Mills and arrange to care for a part of the wastes from the Tyler Rubber Company and the Smith and Dove Manufacturing Company by the town sewers, provided satisfactory agreements with the interested riparian owners can be made.

Respectfully submitted,

WESTON & SAMPSON

Consulting Engineers

We feel that this work should be carried out during the ensuing year and there is an article in the warrant asking for a bond issue of \$150,000.00. This amount and the amount of \$65,000.00

promised to us by the American Woolen Company, if the sewer is carried to the Merrimack River, it is estimated, will cover the cost of this work.

At the last town meeting \$5000.00 was appropriated to defray the expense of the special engineers employed to investigate this problem. Of this amount we have paid \$1572.34 and we would recommend the appropriation of the unexpended balance to cover the remainder of their expense.

THE SEWER BONDED DEBT

The bonded debt of the sewer system January 1, 1922, was \$113,000.00. During the year \$7000.00 was paid from the Town Treasury on this indebtedness, leaving a total indebtedness of the system on January 1, 1923, \$106,000.00.

Of this amount \$30,000.00 is redeemable by the sinking fund which on January 1, 1923, amounted to \$23,005.01.

The sum of \$1000.00 should be appropriated for the sinking fund for the year 1923.

HIGHWAY DEPARTMENT

Under the maintenance appropriation the usual work was done during the year 1922 as follows: Gutters, catch-basins were cleaned out, roads patched, repaired and the Tarvia roads blanketed where necessary. There were several drains installed and also some culvert work. There were a good many wash-outs during the year which caused a very considerable expense.

Under construction the only new work done was the rebuilding of Phillips Street, a detailed cost of which will be found in the Superintendent's report. Owing to the unusual expense in the maintenance department we found it necessary to transfer the sum of \$7586.64 from the Construction Department which accounts for the fact that we were not able to do more construction.

Under the bond issue of last year Main Street was reconstructed from the square to the top of the hill and the report on this work is as follows:

RECONSTRUCTION OF MAIN STREET

At the annual meeting of March 13, 1922, the Town voted the sum of \$100,000.00 for the reconstruction of Main Street, between Chapel Avenue and Champion's corner, the work to be done under the direction of the Board of Public Works.

The State Board of Public Works, through the late J. N. Cole, offered to assist us in drawing up plans and specifications and calling for bids. We accepted their offer.

On April 11, 1922, the State Board of Public Works called for bids to be opened on April 25, 1922.

On April 25, 1922, all the members of the local Board of Public Works were present at the opening of the bids.

The bids called for unit prices on all items in the specifications of two schemes. Scheme (1) required a granite block pavement on a concrete base throughout the entire distance to the junction of School and Main Streets; above that to Chapel Avenue, macadam. Scheme (2) required a reinforced concrete pavement between Morton and Chestnut Streets, the rest of the way, granite block pavement on a concrete base. The Board took the awarding of bids under advisement.

At a meeting of the Board on April 28, 1922, the matter of awarding bids was considered and it was voted to construct Main Street, according to the plans and specifications of Scheme (1). The contract was awarded to M. McDonough Company Swampscott, Mass., that company being the lowest bidder.

Work was started by the contractor on May 31, 1922, and was completed about November 1, 1922. The time limit for the completion of the job was August 15, 1922, but on account of unavoidable causes the time limit was extended. The cost of reconstruction of Main Street under Scheme (1) is as follows:

Paid on contract	\$106508.32
Paid contractor for extra work	4634.83
Advertising for bids	44.85
Wooden stakes for engineers	31.28
C. B. and M. H. frames and covers	357.50
Pay roll of engineers	2394.00
Trimming curbs	78.34
Certification and preparation of bonds	215.00
Incidentals	197.77
<hr/>	
Total	\$114461.89
Credits	304.74
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Total cost of job	\$114157.15

The Board feels that the demand for better roads is increasing year by year and the traffic going over these roads is also increasing. Owing to these indisputable facts it seems that the appropriations for the use of the highway department should be increased instead of decreased. According to this policy we recommend the appropriation of \$80,000.00 for the Highway Department for the ensuing year; \$40,000.00 of this is for new construction and \$40,000.00 for maintenance. The increase of \$10,000.00 for maintenance over last year's appropriation is accounted for by the very excessive cost of snow removal which we have encountered the last winter which is estimated at from \$10,000.00 to \$12,000.00.

PARK DEPARTMENT

The sum of \$1200.00 is recommended for the maintenance of the Park Department for the ensuing year.

ROGERS BROOK

At the last annual Town Meeting on March 13, 1922, the Board of Public Works was required to bring in a report and recommendation at the next annual meeting, of the conditions of Rogers Brook.

The capacity of this brook between the park and Bartlet Street is insufficient to take the flow of water in extreme stormy weather and thaws. We would recommend that the culvert on Chestnut Street be replaced with one of greater capacity. The brook between Chestnut Street and Bartlet Street made much wider and deeper.

We are informed by counsel that, as the Town is an abutter and user of this brook, the Town could cooperate with the other abutters in bearing the expense of this work. But the Town would not be justified in bearing all the expense.

THOMAS E. RHODES
PHILIP L. HARDY
ARTHUR T. BOUTWELL
WILLIAM D. MCINTYRE
EDWARD SHATTUCK

REDEMPTION OF BONDS

To redeem Water Loan	No. 3 due 1923	\$10000.00
	No. 4 " 1925	15000.00
	No. 5 " 1928	5000.00

WATER SINKING FUND

CR.

Balance Jan. 1, 1922	\$35333.23	
Appropriation March, 1922	750.00	
Interest on Deposits	1326.77	
	<hr/>	
	\$37410.00	
Redemption of No. 2, 1922	10000.00	
	<hr/>	\$27410.00

Dr.

WATER LOAN DEPOSITS

Andover National Bank	\$16339.25	
Andover Savings Bank	11070.75	
	<hr/>	27410.00
To redeem Sewer Bonds, due 1928		30000.00

CR.

SEWER SINKING FUND

Balance Jan. 1, 1922	\$21042.05	
Appropriation March, 1922	1000.00	
Interest on Deposits	962.96	
	<hr/>	23005.01
Balance Jan. 1, 1923		23005.01

Dr.

SEWER LOAN DEPOSITS

Andover National Bank Book No. 2	23005.01
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NOTE: In addition to the above bonds we have \$101,000 Serial Water Bonds, and \$76,000 Serial Sewer Bonds.

SUPERINTENDENT'S REPORT

To the Board of Public Works:

GENTLEMEN:—

I herewith submit the thirty-fourth annual report of the Water Department, the twenty-sixth of the Sewer Department and the tenth of the Highway and Park Departments, together with a brief summary of work performed in each department for the year ending December 31st, 1922.

WATER DEPARTMENT

We have added during the year 1922 to our main pipe lines, 1272 feet of 6-inch pipe on Tewksbury Street, B. Vale, at a cost of \$2009.54 or about \$1.58 per foot. On Carmel Street 409 feet of 6-inch pipe. There were several yards of ledge on this job and a ditch full of water most of the time. This work cost \$968.10 or \$2.37 per foot; 809 feet of 6-inch pipe was laid for Phillips Academy. On Lowell Street we have added 6367 feet of 10-inch pipe from the West Church to Shawsheen Village. On Haverhill Street 1736 feet of 10-inch pipe was laid but this work was stopped on account of frost. There still remains about 1980 feet to lay in the spring. Pipe has been laid on eight different streets for the American Woolen Company. They furnished the pipe, did all the digging and back filling but the town laid the same, set gates, the necessary hydrants and supplies, charging for all work done. The following table will show the streets on which pipe has been laid together with number of hydrants and valves set during the year.

	<i>Pipe</i>	<i>Hydrants</i>	<i>Valves</i>
Tewksbury St. B. Vale	1272—6"	2	3
Carmel St.	409—6"	1	2
Lowell St.	6367—10"	10	22
Haverhill St.	1736—10"	5	10
Phillips Academy (Private)	890—6"	1	4
Arundal St.	300—6"		1
Argyle St.	500—6"	1	3
Balmoral St.	780—6"	2	2
Enmore St.	1500—6"	2	3
York St.	520—6"	1	1
Carisbrooke St.	800—6"	1	3
Riverina Rd.	900—6"	2	3
Athletic Field	991—6"	2	4
Total laid 1922	16965 ft.	30	61
Previously reported	276867 ft.	388	
Total	293832	418	
Discontinued 1922	2636—6"	4	
Total Jan. 1, 1923	291196	414	
or	55.15 miles	414	
Discontinued pipe 1736 on Haverhill St., 900 on Burnham Rd.			

There were two (2) connections made for fire lines, one in the new Garage on Haverhill Street and the other in the new Office building. On account of the new layout on Burnham Road, by the County Commissioners, 900 feet of pipe and two hydrants were cut out but connected at York Street and cut in on our new 10-inch line at Haverhill Street. All hydrants from the corner of Main Street on Haverhill Street are of the large opening, giving full opening of 6-inch with 8-inch connections from the 10-inch main. All hydrants on Main Street, five in number, from near the residence of Judge Chandler to Chestnut Street were replaced with Corey hydrants and independent gates, the old ones having no gates and being of a type on which no repairs could be made. All valves on the street were dug up, oiled and packed so that all precautions were taken, as far as possible, by the Department, before the street was built.

We have pumped at Haggetts Pond during the year, 365 days using the steam plant 361 days, and the oil 4 days, 262,078,700 gallons or an average of 718,024 gallons daily, the largest amount ever pumped for Andover. The hours average for pumping

10.39 daily. The day on which the greatest amount was pumped was September the 25th, the amount being 1,014,858 gallons. The Water receipts were very large this year, amounting to \$31,831.38. A new plant is needed at this station, as the Oil Engine is too small and the steam plant is fast wearing out (by age) and the repairs are amounting up very fast. I would recommend a centrifugal pump, electric driven.

The station on Bancroft Road has given us another year of excellent service. We have bought a Manograph which will be installed at the Haggett's Station in the early spring, and which can be used on any line to check up and measure water flows.

The Engineer's house at the Pond has had some necessary repairs. A new bath room was installed, and some painting and papering done and the house itself received two coats of paint. These repairs cost \$600.00.

Our Telemeter Line was overhauled and new wire put up this year. The work was done by the Telephone Company at a cost of \$978.52. For the coming year I would recommend for Maintenance, the sum of \$37,000.00:

Salaries and labor	\$12000.00
300 tons coal	3500.00
Engine and cylinder oil	800.00
Power No. 2 station	1500.00
Keeping horse	400.00
Car, expenses	300.00
Repairs	500.00
Miscellaneous	1000.00
Tools	350.00
Fence No. 1 reservoir and house	1000.00
Retirement of bonds	10000.00
Interest on bonds	4900.00
Sinking fund	750.00
	<hr/>
	\$37000.00

SERVICE PIPES

We laid during 1922, 147 new service pipes, this being the largest number laid since 1891 when 153 were laid.

We have now in use 1800 service pipes of which amount 1745 are metered. During the year 117 meters, varying in sizes from 5-8 to 6 inches, were set. All services were changed over from the main on Main Street to the street line so to avoid later trouble. New ones were also put in wherever there was a vacant lot. This work cost the town, for 59 changes and eight new ones, \$1373.75.

For service pipes this year, I would recommend the sum of \$2500.00 and receipts.

RECEIPTS FOR 1922

For service pipe and meters		\$18495.48
Water rates		31831.38
Paid Town treasurer, water rates	\$31831.38	
Paid Town Treasurer, Pipe account	18495.48	
	<hr/>	<hr/>
	\$50326.86	\$50326.86

SEWER DEPARTMENT

The regular care of Filter beds and general work is all that was done in 1922 in this department. For 1923 I would recommend the sum of \$3000.00.

HOUSE CONNECTIONS

Twenty-six applications were received and laid, making a total of 788 now in use.

COMMON SEWERS

The Lowell Street sewer was completed, a distance of 1740 feet. The amount spent on this work was \$2927.42.

EXPENDITURES

NAMES	WATER DEPARTMENT				SEWER DEPARTMENT				
	Mainte- nance	Service Pipe	Pipe Dist'n	Totals	Mainte- nance	House Con- nections	Common Sewers	Totals	Grand Totals
Payrolls, labor and teams	\$10990.76	\$ 2597.74	\$10876.97	\$24465.47	\$ 278.07	\$419.37	\$ 2596.44	\$ 3293.88	\$27759.35
New England Tel. and Tel.	875.41			875.41					875.41
Boston & Maine, freight	299.53	202.53	51.10	553.16		28.98		28.98	582.14
Lawrence Gas Co.	1398.07		9.72	1407.79					1407.79
American Express	17.96	47.42	23.19	88.57					88.57
Carfares, stamps and envelopes	250.14			250.14					250.14
Andover Press	190.75			190.75					190.75
Walter Morrissey, trucking	104.50	18.00	17.00	139.50	30.00			30.00	169.50
Walter I. Morse	149.52			149.52	84.24			84.24	233.76
Raymond L. Buchan	103.59		111.64	215.23	118.73			118.73	333.96
Gray & Kendall			28.32	28.32	2.65			2.65	30.97
Henry Miller					34.10			34.10	34.10
M. McDonough Co.	337.05	275.31	2.24	614.60	379.51			379.51	994.11
Lenane Motor Co.	9.80			9.80	287.00			287.00	296.80
Mathias Hart Co.	26.00			26.00	33.84			33.84	59.84
Smart & Flagg	3.00			3.00	20.00			20.00	23.00
Anderson & Bowman			53.85	53.85	30.25			30.25	84.10
S. P. Burton, hay					75.24			75.24	75.24
Frank L. Holt, salary					1500.00			1500.00	1500.00
Curry Bros. Oil Co.	451.18			451.18	91.74			91.74	542.92
Andover National Bank					5.00			5.00	5.00
C. M. White Iron Works					135.10			135.10	135.10
E. P. Hall, supplies					1.90		85.00	86.90	86.90
George Morin, supplies					1.25			1.25	1.25
John Shea	300.21		57.13	357.34	64.20			64.20	421.54

Lyle Bros.						15.10			15.10
C. A. Hill	34.31					1.67			35.98
Frank E. Dodge	8.60								13.10
E. T. Hethrington							4.50		9.28
J. F. McDonough							9.28		320.62
Portland Stoneware Co.							36.00	18.30	412.60
P. L. Hardy	27.32						412.60		385.06
American Woolen Co.				12.15			33.75		566.01
M. O'Mahoney								4.50	103.32
Haverhill St. Sewer (special Jos. McCarthy)									5748.08
Weston & Sampson (special appropriation)									1562.34
Buchan & McNally	317.02			133.99					451.01
Bride Grimes Co.	28.16			1.98					30.14
City of Lawrence, Water Dept.	27.52			5.60					33.12
Walworth Mfg. Co.	321.89			687.69	63.20				1072.78
Gamon Meter Co.	8.29			131.25					139.54
Lead-lined Iron Pipe				3817.85					3817.85
Boston & Lawrence Dispatch	8.90			1.93					10.83
John L. Morrison	128.90								128.90
Waterworks Equipment Co.	1231.86			143.60	155.85				1531.31
Boston Pipe and Fittings Co.				54.12					54.12
Gloucester Water Dept.	.87			50.00					50.00
Shawsheen Garage					93.92				94.79
Pittsburgh Meter Co.				890.80					890.80
Frost & Adams				24.19					24.19
Antonio Catargis				100.00					100.00
Bingham & Taylor				253.75					253.75
H. Mueller Mfg. Co.				1863.11					1863.11
Thomson Meter Co.				1211.53					1211.53
Neptune Meter Co.	24.70			1551.24					1575.94
National Meter Co.	82.22								82.22
Chapman Valve Co.				116.40					116.40
Chadwick Lead Co.				60.57					60.57
Braham Dow Co.				10.26					10.26
H. W. Clark					132.18				132.18

NAMES	WATER DEPARTMENT				SEWER DEPARTMENT			
	Mainte- nance	Service Pipe	Pipe Dist'b'n	Totals	Mainte- nance	House Con- nections	Common Sewers	Totals
Rensselaer Valve Co.			5209.77	5209.77				5209.77
Builders Iron Foundry	24.30		1400.24	1424.54				1424.54
National Lead Co.			1984.05	1984.05				1984.05
Donaldson Iron Co.			19912.03	19912.03				19912.03
Waldo Bros & Bond Co.	172.28		186.02	358.30				358.30
Percy Dole, trucking			385.70	385.70				385.70
Old Colony Trust Co.			125.00	125.00				125.00
C. L. Bailey	3.25		9.00	12.25				12.25
Town of Andover			12.00	12.00				12.00
Treat Hardware Co.			2.10	2.10				2.10
P. W. Partridge			24.32	24.32				24.32
H. F. Perkins			16.25	16.25				16.25
B. L. Makepeace			9.60	9.60				9.60
Worthington Pump Co.	816.78			816.78				816.78
Youlden, Smith & Hopkins	9.50			9.50				9.50
Shawsheen Mills	3.00			3.00				3.00
Anglo Saxon Co.	51.04			51.04				51.04
J. H. Richardson Est., hay	177.40			177.40				177.40
Holden Bros., painting	254.73			254.73				254.73
O. P. Chase	6.15			6.15				6.15
Boston Coupling Co.	17.50			17.50				17.50
Ada A. Buchan	63.40			63.40				63.40
Carmine Welding Co.	5.88			5.88				5.88
C. I. Alexander Co.	10.35			10.35				10.35
Boston Water Dept.	8.72			8.72				8.72
S. T. Shattuck	3.00			3.00				3.00
C. J. McCarthy, tools	172.20			172.20				172.20
Standard Stamp Co.	1.55			1.55				1.55
Motor Traffic Co.	7.00			7.00				7.00

A. W. Chesterton Co.	1.10
Lawrence Bindery Co.	7.25
Merrimac Boiler Works	13.10
William Doherty	67.61
M. T. Walsh	2.93
Ludlow Valve Co.	136.60
John A. Riley	4.00
Cross Coal Co.	1362.30
Pettingill & Andrews, wire	414.38
Richard Abbott, hay	144.48
H. A. Prescott, repairs	34.55
N. E. W. W. Assn.	6.00
Roland Glines	11.75
H. J. Stanchfield	.25
Dr. Daly	3.00
Vacuum Oil Co.	873.78
Andover Coal Co.	1651.00
Sherman Envelope Co.	28.47
C. S. Buchan	8.79
Lawrence Machine Co	159.55
Barril Mfg. Co., paint	20.00
Boston Specialty Co.	11.03
Andover Battery Station	8.00
A. L. Cole	10.00
\$24545.98	\$14263.01
\$41868.88	\$80677.87
\$3189.59	\$944.48
\$10341.16	\$14475.23
\$95153.10	

SUMMARY COST OF CONSTRUCTION

WATER DEPARTMENT

DESIGNATION	Approved Bills	Credits	Net Cost 1922	Totals
Office Fixtures	\$	\$	\$	\$ 561.75
Telemeters	978.52		978.52	2290.15
Telephones				184.77
Teams				583.65
Pipe Distribution	41868.88	6064.57	35804.31	292528.54
Service Pipe	14263.01	12090.13	2172.88	36430.98
Water and Land				6687.23
Suction Pipe				1309.46
Reservoir				16985.82
Coal Shed				806.97
Grading Lands				1739.12
Work Shop				1271.88
Buildings at Pumping Station .				9610.14
Pumping Plants				47933.54
Construction Ex.				9406.21
Tools	598.91		598.91	4192.05
Maintenance	22968.55	340.78	22627.77	
	<u>\$80677.87</u>	<u>\$18495.48</u>	<u>\$62182.39</u>	<u>\$432572.26</u>

SEWER DEPARTMENT

Sewer Main in feet	55900		
Number of Filter Beds		28	
Number of Sludge Beds		3	
Cost to Abutters			\$135361.74
Cost to Town			197864.11
	<u>55900</u>	<u>31</u>	<u>\$333225.85</u>

COMPARATIVE STATISTICS, Approved to Jan. 1, 1923

JANUARY 1, 1923

Year	Received from water rates	Net cost of maintenance	Cost of pumping	Cost per million gal'ns		Received per million gallons	Gallons pumped	No. of service pipes in use	meters in use	No. of h'd'nts	Miles of main pipe
				by total maintenance	by cost of pumping						
1889	Work commenced	.....	.....	.....	.....	.....	6 months	46	..	16	.....
1890	\$ 310638	2999 99	1776 21	.....	27 97	82 81	24,911,445	309	80	163	20.50
1891	5349 32	3399 93	1806 93	52 85	27 97	82 81	64,595,597	462	122	165	21.50
1892	5977 41	3491 22	2185 83	40 77	25 53	68 42	85,618,190	542	171	174	22.37
1893	7647 95	3792 56	2408 20	36 42	23 13	73 46	104,123,285	601	204	178	23.50
1894	8378 44	4514 47	3354 04	38 31	28 47	71 27	117,847,305	654	237	178	23.53
1895	8434 15	4380 13	3151 33	37 32	26 87	71 81	117,354,950	706	278	180	24.00
1896	9052 31	4627 53	2557 61	37 47	20 71	78 79	123,476,542	752	326	184	24.12
1897	*8011 87	4336 58	2383 71	37 67	20 71	69 61	115,094,527	789	486	184	24.16
1898	7792 40	3662 43	2196 31	32 33	19 38	68 78	113,287,775	819	571	193	24.91
1899	9376 29	4471 04	2656 42	31 21	19 24	65 45	143,260,253	845	616	194	25.12
1900	10668 57	4915 23	3158 50	33 07	21 25	71 78	148,618,935	876	641	196	25.83
1901	*8941 83	7955 34	3430 35	45 44	19 59	51 00	175,062,920	897	670	196	25.84
1902	11805 21	5787 44	3035 47	40 59	25 63	100 01	118,031,451	934	701	205	29.69
1903	11563 79	7389 44	2922 36	55 52	21 96	86 89	133,085,521	958	722	219	30.17
1904	11818 53	6378 96	3004 34	44 25	20 84	81 98	144,164,563	981	757	221	30.49
1905	12409 79	7228 82	3426 98	44 03	20 87	75 60	164,150,879	1013	791	223	30.95
1906	13516 47	8121 39	3054 09	45 39	17 29	76 48	176,717,579	1036	813	224	31.03
1907	17267 86	8112 47	4825 63	33 34	19 94	75 48	242,025,757	1060	848	227	31.35
1908	14908 89	7419 65	3750 29	39 52	19 97	79 41	187,750,372	1101	884	257	35.22
1909	16407 21	7499 95	3967 72	36 96	19 55	81 16	202,885,685	1147	926	273	38.07
1910	17613 66	8378 32	4234 61	36 50	18 50	76 93	228,939,882	1187	977	290	40.81
1911	18515 99	7974 79	3584 62	39 21	17 62	91 03	203,401,371	1245	1023	321	44.34
1912	19687 47	8117 57	3583 45	39 58	17 48	95 99	205,097,460	1304	1081	344	46.99
1913	22739 88	8412 89	4471 18	36 84	19 58	96 58	228,344,927	1353	1146	351	47.70
1914	19614 00	10306 80	4434 65	43 86	18 86	83 47	234,973,550	1405	1195	364	49.64
1915	22451 01	9982 98	4464 45	42 49	18 55	93 32	240,599,178	1465	1262	369	50.08
1916	23496 87	11998 60	4842 20	46 67	21 91	94 02	220,945,880	1492	1290	377	51.19
1917	24780 82	11538 26	5460 42	52 95	25 06	113 72	217,894,123	1503	1311	377	51.19
1918	27053 04	15838 48	10092 80	58 93	37 56	100 67	268,733,008	1470	1328	378	51.19
1919	18257 58	18257 99	7093 30	83 64	37 72	91 46	218,279,797	1521	1370	378	51.19
1920	31416 47	19924 11	9949 64	78 23	39 06	81 08	254,727,887	1594	1460	378	51.19
1921	28013 36	17745 39	9083 83	89 65	41 44	127 80	219,172,467	1557	1562	388	52.44
1922	31831 38	22627 77	8788 98	86 32	33 54	121 46	262,098,700	1800	1745	414	55.15

* Regulations and rates changed.

† No allowance for slippage.

HIGHWAYS AND PARKS

To the Board of Public Works: —

GENTLEMEN: —

I submit for your approval, the tenth annual report of the Highway Department for the year ending December 31, 1922. We started the year shovelling gutters and sanding sidewalks. We had a severe rain on March 7th, causing lots of damage, followed by another on May 5th which caused a number of wash-outs, the most severe one being at the corner of Haverhill and High Streets which cost \$1500. There were several other wash-outs costing from \$25. to \$300. each. There has been a 30-inch corrugated pipe put across Chestnut Street, through private land for a distance of 250 feet: this pipe takes water from Summer Street and Abbott's field. A 12-inch Akron pipe was laid on Chestnut Street for a distance of 230 feet. A catch-basin at the corner of Avon Street was put in and a corner of Avon Street was curbed. River Road was scarified, patched and resurfaced with a coat of Tarvia, this work costing \$3033.81.

We started patching roads on March 22nd and blanketing on May 15th, using 35,500 gallons of Tarvia B. This work can be cut down in 1923 as several of these streets can go for awhile. A culvert on Central Street caved in, the large cover-stone over the brook was moved, and it was necessary to dig up and repair one half of this. The culvert was put back with a concrete cap, reinforced with steel rails. This work cost \$885.00. Gutters throughout the town have been cleaned out, and catch-basins have had to be cleaned out several times on account of so much rain during the early spring and summer.

Several cinder roads were built last fall and winter. These were paid for out of the 1922 appropriation. These were scraped in the spring and put in first class shape for a country road. Many streets were treated with the material from Main Street, Highland

Road, Woodland Road, Phillips Street, Red Spring Road and Carmel Street. Carmel Street leads to the new Town Home and will need a little more gravel or cinders this spring.

The only new work done this year was on Phillips and Main Streets. Phillips Street was paid for out of the regular appropriation and the following amounts will show the cost of the work:

4613 feet of curbing	\$5460.08
Setting curb	1845.00
Labor	3511.28
Essex Trap Rock Construction Co.	2072.77
B. & M. R.R.	1353.67
Barrett Mfg. Co. (Tar)	1748.12
Gravel for filling	999.00
Corrugated pipe	40.00
E. P. Hall (catch-basin)	102.50
Coal	105.32
Covers for catch-basins	103.60

\$17331.34

This job cost \$2.72 per yard including all material or for road work alone (curbing out \$1.57 per yard). We received a credit for this work from Phillips and Abbot Academies of \$2100.62 making the total cost of the work to the town \$15,230.72. The Main Street work, cost and account will be found in the Board of Public Works report. Our expenses were so heavy this year that little new work could be done and the heavy rains we had caused considerable additional costs. I would recommend for Maintenance for the year 1923:

Labor and Teams	\$12000.00
Blanketing streets	3000.00
Sidewalk work	3000.00
Gravel and ashes	5000.00
Snow	12000.00
Drainage	2000.00
Upkeep, team and car	1000.00
Miscellaneous	1000.00
Bridges	1000.00

\$40000.00

FINANCIAL STATEMENT

Appropriation, March 1922

Highway Department, Maintenance	\$30000.00
Highway Department, Construction	30000.00
Credits	3163.55

Expenditures

Maintenance	\$33963.52
Construction	22413.36
Sidewalk	748.66
Snow	4264.38
Tools	238.02
Drains	2101.68
Bridges	60.89

\$63790.51

Overdrawn	626.96
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\$63790.51 \$63790.51

PARK DEPARTMENT

Appropriation 1922	\$1200.00
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Expended, for Park, Playstead and

Boulders	\$1193.54
Balance	6.46

\$1200.00 \$1200.00

The same sum recommended for 1923, \$1200.00.

CONSTRUCTION

I would propose that Essex Street, from the Boston and Maine R.R. crossing up Shawsheen Road to the top of the hill near Smith's driveway, be built. This will cost about \$10000.00 as both sides of the hill should be curbed and catch basin at top of the hill and piped to brook at the bottom of the hill.

Park Street should be curbed for a distance of about 450 feet with a sidewalk from Buchan & McNally's to Florence Street, at a cost of	1800.00
William Street	4000.00
Stevens Street	8000.00
Abbot Street (3120 yards—2.00)	6000.00
B. & M. R.R. approach	5000.00
Andover Street, resurfaced	8000.00
	<hr/>
	\$42800.00

(Recommend the sum of \$40,000.00)

HIGHWAY EXPENDITURES, 1922

NAMES		Mainte- nance	Con- struction	Main St. Special	Sidewalks Snow Tools	Drains Bridges	Totals
Payrolls, labor and teams	.	\$11061.56	\$ 4586.92	\$2394.00	\$ 4011.73	\$	\$ 22054.21
Boston & Maine	.	117.35	1352.67			\$ 224.09	1694.11
Barrett Mfg. Co.	.	5321.52	4982.82				10304.34
C. M. White Ironworks	.			314.72		121.00	435.72
John L. Morrison	.	58.85		31.28	152.15		242.28
Portland Stoneware Co.	.					543.81	543.81
P. L. Hardy	.		116.28			506.60	506.60
New England Metal Culvert Co.	.					706.18	822.46
J. E. Pitman	.	87.70				60.89	148.59
W. F. Duffee	.	959.50	1845.20		748.66		3553.36
W. I. Morse	.	63.97	10.55		206.77		281.29
J. F. McDonough	.	6427.95	290.00		120.75		6838.70
Treat Hardware	.				11.00		11.00
M. McDonough Co.	.	3370.09		96034.03			99404.12
Andover Press	.	2.55		3.40			5.95
Boston Globe	.			12.30			12.30
Boston Herald	.			12.95			12.95
Boston Post	.			15.30			15.30
Old Colony Trust	.			215.00			215.00
B. L. Makepeace	.			23.85			23.85
P. A. Vassellin	.			78.34			78.34
Boston & Lawrence Dispatch	.			28.38			28.38
Andover Coal Co.	.	13.50	32.18				45.68
Cross Coal Co.	.	27.56	105.32				132.88
Essex Traprock	.	84.51	2062.67				2147.18
Smith & Dove	.	17.00	19.77				36.77
Raymond Buchan	.	109.48	97.86				207.34
Davis Foundry	.		103.60				103.60
E. P. Hall	.		102.50				102.50
John Brady	.	2893.00	1178.00				4071.00

Gray & Kendall	.	.	.	.	.	.	.	9.55	20.45				30.00
A. M. Colby	.	.	.	.	.	.	.		12.00				12.00
H. E. Fletcher	.	.	.	.	.	.	.		5460.08				5460.08
M. I. Dallman, brushes	.	.	.	.	.	.	.		33.04				33.04
Shawsheen Garage	.	.	.	.	.	.	.		1.45				1.45
Frank H. Hardy	.	.	.	.	.	.	.	27.50					27.50
John Shea	.	.	.	.	.	.	.	7.53					7.53
H. E. Prescott	.	.	.	.	.	.	.	6.75					6.75
Andover Fire Dept.	.	.	.	.	.	.	.	1015.42					1015.42
Good Roads Machinery	.	.	.	.	.	.	.	126.85					126.85
Waldo Bros. & Bond Co.	.	.	.	.	.	.	.	8.82					8.82
C. I. Hood Farm	.	.	.	.	.	.	.	48.80					48.80
Bride & Grimes	.	.	.	.	.	.	.	1.62					1.62
Buchan & McNally	.	.	.	.	.	.	.	17.47					17.47
Anderson & Bowman	.	.	.	.	.	.	.	86.75					86.75
J. H. Campion	.	.	.	.	.	.	.	1.50					1.50
H. I. Reynolds	.	.	.	.	.	.	.	3.75					3.75
F. L. Cole	.	.	.	.	.	.	.	23.50					23.50
B. L. McDonald Co., sand, gravel and stone	.	.	.	.	.	.	.	1443.25					1443.25
Tyer Rubber Co.	.	.	.	.	.	.	.	1.50					1.50
Salem Evening News	.	.	.	.	.	.	.	5.50					5.50
A. M. Colby	.	.	.	.	.	.	.	6.00					6.00
Daniel Webster	.	.	.	.	.	.	.	1.00					1.00
Bean & Poore, lumber	.	.	.	.	.	.	.	54.41					54.41
George Averill	.	.	.	.	.	.	.	28.00					28.00
Ada Buchan	.	.	.	.	.	.	.	21.40					21.40
Standard Oil Co.	.	.	.	.	.	.	.	64.00					64.00
Richard Abbott	.	.	.	.	.	.	.	44.46					44.46
Dole & Smith	.	.	.	.	.	.	.	38.00					38.00
American Woollen Co.	.	.	.	.	.	.	.	14.27					14.27
Joseph McCarthy	.	.	.	.	.	.	.	22.03					22.03
Alden Spears	.	.	.	.	.	.	.	121.80					121.80
John Buswell	.	.	.	.	.	.	.	96.00					96.00
\$33963.52									\$22413.36	\$99164.45	\$5251.06	\$2162.57	\$162954.96

TOWN OF ANDOVER

ANNUAL REPORT

OF THE

Receipts and Expenditures



FOR THE FISCAL YEAR ENDING

DECEMBER 31, 1923

ANDOVER, MASS.
THE ANDOVER PRESS
1924

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TOWN OFFICERS 1923

Selectmen and Overseers of the Poor

FRANK H. HARDY, <i>Chairman</i>	Term expires 1926
CHARLES BOWMAN	“ “ 1924
ANDREW McTERNEN, <i>Secretary</i>	“ “ 1925

Assessors

FRANK H. HARDY, <i>Chairman</i>	Term expires 1926
CHARLES BOWMAN	“ “ 1924
ANDREW McTERNEN, <i>Secretary</i>	“ “ 1925

Town Clerk

GEORGE A. HIGGINS

Town Treasurer

GEORGE A. HIGGINS

Tax Collector

WILLIAM B. CHEEVER

School Committee

ERNEST A. JOHNSON	Term expires 1924
EVERETT C. HILTON	“ “ 1924
MARY W. FRENCH	“ “ 1924
DAVID R. LAWSON	“ “ 1924
ROY H. BRADFORD	“ “ 1925
DOUGLAS G. CRAWFORD	“ “ 1925
W. DUDLEY YATES	“ “ 1925
FREDERICK E. CHEEVER	“ “ 1926
ALFRED E. STEARNS	“ “ 1926

Superintendent of Schools

HENRY C. SANBORN

Board of Public Works and Sinking Fund Commission

PHILIP L. HARDY	Term expires 1924
WILLIAM D. McINTYRE	“ “ 1924
ARTHUR T. BOUTWELL	“ “ 1925
EDWARD SHATTUCK	“ “ 1925
WALTER I. MORSE	“ “ 1926

Superintendent of Water, Sewer Department, Highways and Parks
FRANK L. COLE

Engineers of Fire Department
CHARLES F. EMERSON, *Chief*
LLEWELLYN D. POMEROY, *Clerk*
HARRY E. WELLS

Board of Health
FRANKLIN H. STACEY Term expires 1924
CHARLES E. ABBOTT, M.D. " " 1925
BANCROFT T. HAYNES " " 1926

Chief of Police
FRANK M. SMITH

Constables
JAMES NAPIER Term expires 1924
FRANK M. SMITH " " 1924
GEORGE N. SPARKS " " 1924

Trustees of Memorial Hall Library
BURTON S. FLAGG Term expires 1924
E. KENDALL JENKINS " " 1925
REV. FREDERICK A. WILSON " " 1926
FREDERIC S. BOUTWELL " " 1927
NATHAN C. HAMBLIN " " 1928
PHILIP F. RIPLEY " " 1929
ALFRED E. STEARNS " " 1930

Trustees of Punchard Free School — Terms expire 1925
FREDERIC S. BOUTWELL JOHN H. CAMPION
MYRON E. GUTTERSON HARRY H. NOYES
EDMOND E. HAMMOND

Auditors
JOHN S. ROBERTSON WALTER H. COLEMAN
HARRY SELLARS

Trustees of Cornell Fund

DR. WILLIAM D. WALKER	Term expires 1924
CHARLES N. MARLAND	" " 1925
JOHN C. ANGUS	" " 1926

Superintendent of Moth Department

EDWARD H. BERRY

Tree Warden

EDWARD H. BERRY

Moderator of Town Meetings

ALFRED L. RIPLEY

Registrars of Voters

SAMUEL P. HULME	JOHN F. HURLEY
PATRICK J. SCOTT	GEORGE A. HIGGINS, <i>Clerk</i>

Trustees Spring Grove Cemetery

WALTER I. MORSE	DANIEL H. POOR
FRED E. CHEEVER	FRED A. SWANTON
EVERETT M. LUNDGREN	DAVID R. LAWSON
JOHN W. STARK	

Street Lighting Committee

WALTER H. COLEMAN	HENRY J. GARDNER
FREDERIC G. MOORE	JAMES C. SOUTER
FRED G. CHENEY	

Finance Committee

HENRY A. BODWELL, <i>Chairman</i>	GEORGE ABBOT
JOHN C. ANGUS, <i>Secretary</i>	CHESTER W. HOLLAND
EDWARD V. FRENCH	GEORGE H. WINSLOW
GEORGE L. AVERILL	

TOWN WARRANT

THE COMMONWEALTH OF MASSACHUSETTS

ESSEX, ss.: To either of the Constables of the Town of Andover, GREETING:

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in elections and in town affairs to meet and assemble at the designated polling places in Precincts One, Two, Three and Four, viz: The Town House in Precinct One; the Old School House, Ballardvale, in Precinct Two; the Boys' Club House, Shawsheen Village, in Precinct Three; and the Phillips Club House, School Street, in Precinct Four, in said Andover, on MONDAY, THE FIFTH DAY OF MARCH, 1923, at 6 o'clock a.m., to act on the following articles:

Article 1.—To elect a Moderator for one year, Town Clerk for one year, Treasurer for one year, Collector of Taxes for one year, one member of the Board of Selectmen for three years, one member of the Board of Assessors for three years, three members of the School Committee for three years, one member of the Board of Public Works for three years, one member of the Board of Health for three years, three Auditors of Accounts for one year, three Constables for one year, one Trustee of Memorial Hall Library for seven years, one Trustee of Memorial Hall Library for six years (to fill vacancy), one Tree Warden for one year and all town officers required by law to be elected by ballot. Also to take action on the following questions: Shall licences be granted for the sale of certain non-intoxicating beverages in this town? "Shall the town petition for the installation of an accounting system by the Commonwealth? (This question is submitted under the provisions of Chapter 516, Acts of 1922.)"

All to be voted for on one ballot. The polls will be open from 6 o'clock a.m. to 5 o'clock p.m.

After final action on the preceding Article one, the said meeting shall stand adjourned by virtue of Section 20, Chapter 39, of the General Laws, to Monday, March 12th, at 1.30 o'clock p.m. at the Town Hall, then and there to act upon the following Articles, namely:

Article 2.—To elect all other officers not required by law to be elected by ballot.

Article 3.—To determine what sums of money shall be appropriated for Almshouse Expenses, Relief out of Almshouse, Aiding Mothers with Dependent Children, Board of Health, Brush Fires, Fire Department, Hay Scales, Highway Department, Insurance, Interest, Memorial Hall Library, Memorial Day, Post 99, G.A.R., Miscellaneous, Parks and Playsteads, Police, Printing and Stationery, Election and Registration, Public Dump, Retirement of Veterans, Redemption of Water, Sewer, High School, Main Street and Shawsheen Bridge Bonds, Schools, Sewer Maintenance, Sewer Sinking Funds, Soldiers' Relief, Spring Grove Cemetery, State Aid, Street Lighting, Town Officers, Town House, Tree Warden, Moth Department, Water Maintenance, Construction and Sinking Funds, Andover Post No. 8, American Legion, and other town charges and expenses.

Article 4.—To see if the town will vote to appropriate the sum of \$6000.00 to pay the unpaid bills contracted by the Almshouse Building Committee, and to build a combination Barn and Garage, on petition of the Selectmen.

Article 5.—To see if the Town will vote to purchase a combination truck and ambulance for the use of the Police Department and appropriate the sum of \$700.00 for the same, on petition of the Selectmen.

Article 6.—To see if the Town will appropriate the sum of \$14,157.15 in addition to the balance on hand of \$1140.29 to pay for bills due for extra work done in the reconstruction of Main Street, on petition of the Board of Public Works.

Article 7.—To see if the Town will appropriate the sum of \$10,000.00 for granolithic sidewalks on either side of Main

Street and do necessary grading, on petition of the Board of Public Works.

Article 8.—To see if the Town will accept the provisions of an Act of the Legislature of 1923 "Authorizing the Town of Andover to construct an Outfall Sewer for the Disposal of its Sewage."

Also to see if the Town will vote to issue bonds or notes of the Town in the aggregate amount of one hundred and fifty thousand (\$150,000.) dollars for the purpose of paying the necessary expenses and liabilities incurred under this act, the indebtedness under this act to be in excess of the statutory limit, but, except as otherwise provided therein, subject to Chapter Forty-four of the General Laws, on petition of the Board of Public Works.

Article 9.—To see if the Town will authorize and direct the School Committee to petition the General Court of 1923 for authority to borrow the sum of two hundred and sixty-eight thousand (\$268,000.) dollars outside the statutory limit of indebtedness, by bond issue or otherwise, for the following purposes.

To grade and loam the lot and to build and equip a new grammar school building, to be located on the land given by the American Woolen Company and accepted by the town, situated at the junction of and between Corbett Street and Magnolia Avenue, on petition of the School Committee.

Article 10.—To see if the Town will vote to purchase a Motor Ladder Truck for the Fire Department and appropriate a sum of \$15,000.00 for the same, on petition of William C. Crowley and others.

Article 11.—To see if the Town will authorize the Board of Public Works to extend the water main from the present termination of same on Corbett Street at premises of Antonio Catanzaro, a distance of seventeen hundred (1700) feet along said Corbett Street to the main entrance to the Sacred Heart Cemetery, and appropriate a sum of money sufficient therefor, on petition of Edward Topping and others.

Article 12.—To see if the Town will appropriate a sum of \$10,000.00 to lay a 6-inch water main on Chandler Road, to the residence of William F. Trauschke and others, on petition of William F. Trauschke and others.

Article 13.—To see if the Town will accept the provisions of Section 85 of Chapter 32 of the General Laws of Massachusetts entitled "Pensions for Policemen and Firemen," on petition of Colver J. Stone and others.

Article 14.—To hear and act on the report of the War Memorial Committee.

Article 15.—To see if the Town will deed back to the Boston & Maine Railroad a certain piece of land situated in Ballard Vale, deeded to the town from the said Boston & Maine Railroad September 16th, 1871, on the express condition that neither the land nor the building thereon be used for any other purpose than housing fire apparatus, on petition of the Selectmen.

Article 16.—To determine the method of collecting the taxes for the ensuing year.

Article 17.—To authorize the Town Treasurer to hire money for the use of the town in anticipation of the revenue of the current financial year, with the approval of the Selectmen.

Article 18.—To determine what disposition shall be made of unexpended appropriations.

Article 19.—To act upon the report of the Town Officers.

Article 20.—To determine the amount of money to be raised by taxation the ensuing year.

Article 21.—To transact any other business that may legally come before the meeting.

And you are directed to serve this warrant by posting attested copies and publication thereof, seven days at least before the time of said meeting as directed by the By-Laws of the town.

Hereof fail not and make return of this warrant with your doings thereon, at the time and place of said meeting.

Given under our hands this twenty-first day of February, A.D. 1923.

WALTER S. DONALD
CHARLES BOWMAN
ANDREW McTERNEN

Selectmen of Andover

ANDOVER, March 5th, 1923

ESSEX, ss.

Pursuant to the foregoing warrant, I, the subscriber, one of the Constables of the Town of Andover, have notified the inhabitants of said town to meet at the time and places and for the purposes stated in said warrant, by posting a true and attested copy of the same on the Town House, on each schoolhouse and in no less than five other public places, where bills and notices are usually posted. Said warrants have been posted and published seven days.

FRANK M. SMITH,
Constable

ANNUAL TOWN MEETING, MARCH 5, 1923

At a legal meeting of the inhabitants of the Town of Andover qualified to vote in town affairs convened in Precincts One, Two, Three and Four in said Andover on Monday, the Fifth day of March 1923, at six o'clock in the forenoon, agreeably to the requirements of the foregoing warrant, took up Article One and proceeded to vote for Town Officers and on the License and Accounting questions.

The ballot boxes were found to be empty and registered 0000. The polls opened at 6 o'clock a.m. and closed at 5 o'clock p.m. The total number of ballots cast was 2306. Viz: Precinct One 1308, Precinct Two 245, Precinct Three 451, Precinct Four 302.

The result of the balloting was as follows:

MODERATOR — One year:

Precincts

1	2	3	4		
956	182	362	275	Alfred L. Ripley	1775
		1		John Traynor	1
352	63	88	27	Blanks	530

TOWN CLERK — One Year:

984	198	365	269	George A. Higgins	1816
324	47	86	33	Blanks	490

TOWN TREASURER — One Year:

944	188	360	268	George A. Higgins	1760
364	57	91	34	Blanks	546

SELECTMAN — Three Years:

139	30	70	47	George L. Averill	286
324	58	35	26	Martin Doherty	443
435	95	282	179	Frank H. Hardy	991
47	2	2	1	William G. McDermitt	52
334	54	57	47	James C. Souter	492
29	6	5	2	Blanks	42

ASSESSOR — Three Years:

145	28	69	56	George L. Averill	298
316	56	32	24	Martin Doherty	428
413	91	273	163	Frank H. Hardy	940
48	1	3	1	William G. McDermitt	53
333	52	56	46	James C. Souter	487
53	17	18	12	Blanks	100

COLLECTOR OF TAXES — One Year:

948	185	368	265	William B. Cheever	1766
360	60	83	37	Blanks	540

SCHOOL COMMITTEE — Three Years:

875	158	306	268	Frederick E. Cheever	1607
934	153	301	247	Edward C. Conroy	1635
902	150	310	264	Alfred E. Stearns	1626
1213	274	436	127	Blanks	2050

TRUSTEE OF MEMORIAL HALL LIBRARY — Seven Years:

915	164	357	275	Alfred E. Stearns	1711
		1		John Traynor	1
393	81	93	27	Blanks	594

TRUSTEE OF MEMORIAL HALL LIBRARY — Six Years (*to fill vacancy*):

889	150	343	269	Philip F. Ripley	1651
419	95	108	33	Blanks	655

BOARD OF PUBLIC WORKS AND SINKING FUND COMMISSION — Three Years:

242	179	71	56	Edward P. Hall	548
557	19	186	145	Walter I. Morse	907
455	44	156	94	Thomas E. Rhodes	749
54	3	38	7	Blanks	102

BOARD OF HEALTH — Three Years:

866	201	354	257	Bancroft T. Haynes	1678
442	44	97	45	Blanks	628

AUDITORS OF ACCOUNTS — One Year:

824	169	310	251	Walter H. Coleman	1554
901	157	288	239	John S. Robertson	1585
872	153	288	245	Harry Sellars	1558
1327	256	467	171	Blanks	2221

CONSTABLES — One Year:

815	143	292	242	James Napier	1492
835	149	317	246	Frank M. Smith	1547
851	196	304	250	George N. Sparks	1601
1423	247	440	168	Blanks	2278

TREE WARDEN — One Year:

931	177	355	255	Edward H. Berry	1718
		1		John Traynor	1
377	68	95	47	Blanks	587

Shall Licenses be granted for the sale of certain Non-Intoxicating Beverages in this town?

492	75	146	71	Yes	784
532	101	210	195	No	1038
284	69	95	36	Blanks	484

Shall the town petition for the installation of an Accounting System by the Commonwealth? (This question is submitted under the provisions of Chapter 516, Acts of 1922.)

254	49	148	63	Yes	514
520	74	141	159	No	894
534	122	162	80	Blanks	898

All the foregoing officers and questions were voted on by ballot and the check lists were used.

REPORT OF CLERK — PRECINCT ONE

ANDOVER, March 5th, 1923

Polls opened at 6 a.m. closed at 5 p.m. Ballot box registered at opening 0000, when closed 1307, being one less than the actual number cast. Number of ballots received 2099, number of ballots returned 791. Number of ballots cast 1308. Number of female votes cast 483. Number of male votes cast 825.

MARK M. KEANE, *Clerk*

REPORT OF CLERK — PRECINCT TWO

BALLARDVALE, March 5, 1923

Polls opened at 6 a.m. and closed at 5 p.m. Ballot box registered at opening 0000. Ballot box registered when polls closed 245. Number of ballots received 450. Number of ballots cast 245. Number of ballots returned 205. Warden Clester Matthews in charge. Constable George N. Sparks on duty.

JOSEPH P. LYNCH, *Clerk*

REPORT OF CLERK — PRECINCT THREE

SHAWSHEEN VILLAGE, March 5, 1923

Polls opened at 6 a.m. and closed at 5 p.m. Ballot box registered at opening 0000. Ballot box registered when polls closed 451. Number of ballots cast 451. Number of ballots received 700. Number of ballots returned 249.

HENRY J. LAVERY, *Clerk*

REPORT OF CLERK — PRECINCT FOUR

ANDOVER, March 5, 1923

Polls opened at 6 a.m. at the Phillips Club on Main Street, with Warden H. S. Hopper in charge. Ballot box read 0000. The polls closed at 5 p.m. with a total of 302 votes cast. Total number of ballots received 650. Total number of ballots returned 348.

R. J. WINTERS, *Clerk*

After final action on Article One, the said meeting was adjourned by virtue of Section 20, Chapter 39 of the General Laws, to Monday, March 12th, at 1.30 o'clock p.m. at the Town Hall.

1.30 O'CLOCK P. M. MONDAY, MARCH 12TH, 1923

The Moderator declared:

Alfred L. Ripley elected Moderator for one year.

George A. Higgins elected Town Clerk for one year.

George A. Higgins elected Town Treasurer for one year.

Frank H. Hardy elected Selectman for three years.

Frank H. Hardy elected Assessor for three years.

William B. Cheever elected Collector of Taxes for one year.

Frederick E. Cheever elected member of School Committee for three years.

Edward C. Conroy elected member of School Committee for three years.

Alfred E. Stearns elected member of School Committee for three years.

Alfred E. Stearns elected Trustee of Memorial Hall Library for seven years.

Philip F. Ripley elected Trustee of Memorial Hall Library for six years (to fill vacancy).

Walter I. Morse elected member of Board of Public Works and Sinking Fund Commission for three years.

Bancroft T. Haynes elected member of Board of Health for three years.

Walter H. Coleman elected Auditor of Accounts for one year.

John S. Robertson elected Auditor of Accounts for one year.

Harry Sellars elected Auditor of Accounts for one year.

James Napier elected Constable for one year.

Frank M. Smith elected Constable for one year.

George N. Sparks elected Constable for one year.

Edward H. Berry elected Tree Warden for one year.

Took up Article 2: and chose

John C. Angus, Trustee of Cornell Fund for three years.

Chose Finance Committee for one year (appointed by the Moderator): George Abbot, Henry A. Bodwell, Edward V. French, Chester W. Holland, George H. Winslow, John C. Angus, George L. Averill.

Chose Street Lighting Committee for one year (appointed by the Moderator): Walter H. Coleman, Fred G. Cheney, Henry J. Gardner, Frederic G. Moore, James C. Souter.

Chose Memorial Committee for one year (appointed by the Moderator): Walter M. Lamont, John F. O'Connell, Claude M. Fuess, Henry A. Bodwell, Burton S. Flagg, E. V. French, E. Barton Chapin.

Took up Article 3.

Voted to appropriate the following stated sums of money:

Almshouse	\$ 6600.00
Almshouse, Relief Out of	5000.00
Aiding Mothers with Dependent Children	2500.00
Board of Health	3600.00
Brush Fires	1000.00
Elections and Registration	600.00
Essex County Tuberculosis Hospital	2823.50
Fire Department	24000.00
G. A. R.	100.00
Hay Scales	125.00
Highway Department	
Maintenance	45000.00
New Construction	30000.00
Interest	20500.00
Insurance	6000.00
Fire	3500.00
Workmen's Compensation	2500.00
Library, Memorial Hall	4000.00
Memorial Day	550.00
Miscellaneous	1200.00
Parks and Playsteads	1200.00
Police Department	14500.00
<i>Amount carried forward</i>	<hr/> \$169298.50

<i>Amount brought forward</i>	\$169298.50
Printing and Stationery	2000.00
Public Dump	75.00
Retirement of Veterans	300.00
Retirement of Bonds	35500.00
Sewer	7000.00
High School	6000.00
Shawsheen Bridge	2500.00
Main Street Construction	20000.00
Schools	111883.00
Sewer Department	4000.00
Labor and Power	3000.00
Sinking Fund	1000.00
Soldiers' Relief	1500.00
Military Aid	200.00
Spring Grove Cemetery	5200.00
State Aid	600.00
Street Lighting	10000.00
Town House	3000.00
Town Officers	10400.00
Tree Warden and Moth Work	15000.00
Water Department	37000.00
Water Department, Service Pipe	2500.00
Andover Post No. 8, American Legion	900.00
Article 4 — New Almshouse	6500.00
Article 5 — Police	700.00
Article 6 — Main St.	14157.15
Article 7 — Main St. Sidewalks	3000.00
Article 10 — Fire Dept., Ladder Truck	10000.00
Article 12 — Water, Chandler Road	10000.00
	<hr/>
	\$453713.65
State Tax (estimate)	30000.00
County Tax (estimate)	20000.00
	<hr/>
	\$503713.65

Took up Article 4.

Voted, at 2.50 p.m., To appropriate the sum of \$6500. to pay the unpaid bills contracted by the Almshouse Building Committee, and to build a combination barn and garage.

Took up Article 5.

Voted, at 3.05 p.m., To appropriate the sum of \$700. for the purchase of a combination truck and ambulance for the use of the Police Department.

Took up Article 6.

Voted, at 3.10 p.m., To appropriate the sum of \$14,157.15 in addition to the balance on hand of \$1140.29 to pay for bills due for extra work done in the reconstruction of Main Street.

Took up Article 7.

Voted, at 3.35 p.m., To appropriate a sum not exceeding \$3000. for granolithic sidewalks on either side of the business section of Main Street from Chestnut Street to Elm Square.

Took up Article 8.

Voted, at 3.37 p.m., That the town accept the provisions of Chapter 69 of the Acts of 1923, "Authorizing the Town of Andover to construct an Outfall Sewer for the Disposal of its Sewage." The vote stood Yeas 266, Nays none.

Also voted, at 3.42 p.m., That under authority of and in compliance with Act of 1923, Chapter 69, entitled "An Act Authorizing the Town of Andover to construct an Outfall Sewer for the Disposal of its Sewage," which has been duly accepted by the town, and for the purpose of paying the necessary expenses and liabilities incurred under said Act the sum of one hundred and fifty thousand (150,000) dollars be and the same is hereby appropriated, and to raise said amount the Town Treasurer is hereby authorized to prepare, issue and sell bonds or notes of the town in said principal amount of one hundred and fifty thousand (150,000) dollars bearing on face the words "Andover Sewer Loan, Act of 1923," signed by the Treasurer and countersigned by the Selectmen, bearing interest at a rate not exceeding five per cent per annum payable semi-annually. Said bonds or notes

shall be payable in accordance with section 19 of Chapter 44 of the General Laws, so that the whole of said loan shall be due and payable in not more than thirty (30) years from the date of issue. All other particulars as to the form, issuance and sale of said bonds or notes shall be determined by the Treasurer, with the approval of the Selectmen. The vote stood Yeas 261, Nays none.

Took up Article 9.

Voted, at 4.00 p.m., That the Town authorize and direct the School Committee to petition the General Court of 1923 for authority to borrow the sum of two hundred and thirty thousand (230,000) dollars outside the statutory limit of indebtedness, by bond issue or otherwise, for the following purposes:

To grade and loam the lot and to build and equip a new grammar school building, to be located on the land given by the American Woolen Company and accepted by the town, situated at the junction of and between Corbett Street and Magnolia Avenue. The vote was unanimous.

Took up Article 10.

Voted, at 4.04 p.m., To appropriate the sum of \$10,000. for the purchase of a Motor Ladder Truck for the Fire Department.

Took up Article 11.

Voted, at 4.07 p.m., To refer to the Board of Public Works.

Took up Article 12.

Voted, at 4.23 p.m., That the town appropriate the sum of \$10000. to lay a 6-inch water main on Chandler Road to the residence of William F. Trauschke and others.

Took up Article 13.

Voted, at 4.24 p.m., That the article be stricken from the warrant.

Took up Article 14.

Voted, at 5.22 p.m., To accept the report of the Committee and that the work of the Committee be extended and they be requested to bring in a recommendation for a distinct War Memorial, omitting any plan for a civic center.

Took up Article 15.

Voted, at 5.27 p.m., To deed back to the Boston & Maine Railroad a certain piece of land situated in Ballardvale deeded to the town from the said Boston & Maine Railroad, September 16, 1871.

Took up Article 16.

Voted, at 5.28 p.m., That the taxes be collected by the Collector, that he receive a salary of \$1800. per year and that interest be charged at the rate of six per cent per annum from October 15th, on all taxes remaining unpaid after November 1st.

Took up Article 17.

Voted, at 5.29 p.m., That the Town Treasurer, with the approval of the Selectmen, be and hereby is authorized to borrow money from time to time in anticipation of the revenue of the financial year beginning January 1st, 1923, and to issue a note or notes therefor, payable within one year, any debt or debts incurred under this vote to be paid from the revenue of said financial year.

Took up Article 18.

Voted, at 5.30 p.m., That all unexpended appropriations be turned into the treasury with the exception of the balances named in the Treasurer's Report, viz: Water Loan, Special Sewer Survey, Main Street Loan, North Main Street appropriation, Soldiers' Memorial Committee.

Took up Article 19.

Voted, at 5.31 p.m., That the Report of the Town Officers be accepted.

Took up Article 20.

Voted, at 5.32 p.m., To raise by taxation \$353,000. plus an amount sufficient to meet the State and County Taxes, after deducting receipts from the State Income Tax.

Took up Article 21.

Voted, To add the word "private" in the Assessors' Street List to all streets which have not been accepted by the town.

Voted, That a vote of thanks be extended to the War Memorial Committee for their faithful work as shown in the plans presented to the town.

Voted, at 5.40 p.m., That the meeting be dissolved.

The foregoing is a true copy of the Warrant and of the Officers' return on the same, also a true record of the doings of the regular and adjourned meetings.

Attest:

GEORGE A. HIGGINS

Town Clerk

SPECIAL TOWN MEETING, JUNE 12, 1923
WARRANT

THE COMMONWEALTH OF MASSACHUSETTS

ESSEX, ss.: To either of the Constables of the Town of Andover: GREETING:

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in town affairs to meet and assemble at the Town House in said Andover, on Tuesday, the Twelfth day of June, 1923, at 8 o'clock p.m., to act on the following articles:

✓ Article 1. — To see if the town will vote to appropriate the sum of two hundred thirty thousand (\$230,000.) dollars for the purpose of building a new school building in that part of Andover known as Shawsheen Village and of purchasing furnishings and original equipment therefor, and for the purpose of raising all or a portion of said sum will authorize the Town Treasurer with the approval of the Selectmen to prepare, issue and sell under authority of Chapter 272, Massachusetts Acts of 1923, bonds or notes outside the debt limit but otherwise subject to Chapter 44 of the General Laws, or take any action in relation thereto, on petition of the School Committee.

Article 2. — To see if the Town will appoint and authorize a Committee to procure plans and specifications, obtain bids, let contracts, and approve bills for building, purchasing the furnishings, and equipping the new schoolhouse mentioned in Article One, on petition of the School Committee.

Article 3. — To see if the Town will vote to authorize the Selectmen to take in fee by eminent domain for school purposes, and award damages therefor, the land situated on Magnolia Avenue in Andover, and being lot numbered six (6) as shown on plan of land known as "Oakhurst Knolls," recorded in Essex

North District Registry of Deeds, book 238, page 600, said lot being bounded Northerly by lot numbered 7, as shown on said plan, 80 feet; Easterly by Magnolia Avenue, as shown on said plan, 50 feet; Southerly by lot numbered 5, as shown on said plan, 80 feet; Westerly 50 feet as shown on said plan. Containing 4000 square feet of land; and to appropriate a sum not exceeding Seven hundred and fifty (\$750.) dollars therefor, the same to be raised by taxation, on petition of the School Committee.

Article 4. — To see if the town will appropriate the sum of nine thousand (\$9000.) dollars for the purpose of reconstructing Haverhill Street from North Main Street to a point near the Boston & Maine Railroad Bridge, provided the State and County severally appropriate a like sum, on petition of the Board of Public Works.

Article 5. — To see if the town will appropriate the sum of forty-five hundred (\$4500.) dollars for putting in a new pumping unit at Haggetts Pond Station on recommendation of the Board of Public Works.

Article 6. — To see if the town will accept as a Town Way, as laid out by the Selectmen, a street running from a point on Chestnut Street northerly about 716 feet and 48 feet in width to a point on Summer Street in accordance with a plan on file, on petition of Llewellyn D. Pomeroy and others.

Article 7. — To see if the town will appropriate a sum not exceeding \$2500.00 for the purpose of lowering the bed of Rogers Brook from a point near center of the Public Park, to the opening of culvert at east side of Bartlet Street and installing necessary pipes and retaining walls, and such other work in the deepening and widening of Rogers Brook as may be found necessary, said work to be done under the supervision of the Board of Public Works, in cooperation with the abutting owners, on petition of W. Dudley Yates and others.

Article 8. — To see what action, if any, the town will take in regard to the collection and disposal of its garbage and ashes, on petition of the Board of Health.

Article 9. — To act on any other business that may legally come before the meeting.

And you are directed to serve this warrant by posting attested copies and publication thereof, seven days at least before the time of said meeting as directed by the By-Laws of the town.

Hereof fail not and make return of this warrant with your doings thereon, at the time and place of said meeting.

Given under our hands this thirty-first day of May, A.D. 1923.

FRANK H. HARDY
CHARLES BOWMAN
ANDREW McTERNEN

Selectmen of Andover

ANDOVER, MASS., June 12, 1923

ESSEX, SS.

Pursuit to the foregoing warrant, I, the subscriber, one of the Constables of the Town of Andover, have notified the inhabitants of said town to meet at the time and place and for the purposes stated in said warrant by posting a true and attested copy of the same on the Town House, on each schoolhouse and in no less than five other public places, where bills and notices are usually posted, and by publication in the Andover Townsman. Said warrants have been posted and published seven days.

FRANK M. SMITH
Constable

At a legal meeting of the inhabitants of the Town of Andover qualified to vote in town affairs convened in the Town House in said Andover, on Tuesday, the Twelfth day of June, 1923, at 8 o'clock in the evening, agreeably to the requirements of the foregoing warrant, Moderator Alfred L. Ripley presided and read the warrant.

Took up Article 1.

Voted, at 8.15 p.m., That the Town appropriate the sum of two hundred thirty thousand (\$230,000.00) dollars for the purpose of building a school building in that part of Andover known

as Shawsheen Village and of purchasing furnishings and original equipment for said building, and that for the purpose of raising said amount the Town Treasurer with the approval of the Selectmen be and he hereby is authorized and directed to prepare, issue and sell under authority of Chapter 272, Massachusetts Acts of 1923, bonds or notes of the town in the aggregate principal amount of two hundred thirty thousand (\$230,000.00) dollars outside the debt limit but otherwise subject to Chapter 44 of the General Laws, payable in such annual payments and at such rate of interest not exceeding five per cent per annum payable semi-annually as the Treasurer and the Board of Selectmen may deem expedient, bearing on face the words "Andover School Loan, Act of 1923," signed by the Treasurer and countersigned by the Selectmen. The vote was unanimous, 116 voting in the affirmative and none in the negative.

Took up Article 2.

Voted, at 9.19 p.m., That the School Committee be appointed and authorized to procure plans and specifications, obtain bids, let contracts, and approve bills for building, purchasing the furnishings, and equipping the new schoolhouse mentioned in Article One.

Took up Article 3.

Voted, at 9.21 p.m., To authorize the Selectmen to take in fee by eminent domain for school purposes, and award damages therefor, the land situated on Magnolia Avenue in Andover, and being lot numbered six (6) as shown on plan of land known as "Oakhurst Knolls," recorded in Essex North District Registry of Deeds, book 238, page 600, said lot being bounded northerly by lot numbered 7, as shown on said plan, 80 feet; Easterly by Magnolia Avenue, as shown on said plan, 50 feet; Southerly by lot numbered 5, as shown on said plan, 80 feet; Westerly 50 feet as shown on said plan. Containing 4000 square feet of land; and to appropriate a sum not exceeding seven hundred and fifty (\$750.) dollars therefor, the same to be raised by taxation.

Took up Article 4.

Voted, at 9.22 p.m., That article be withdrawn.

Took up Article 5.

Voted, at 9.23 p.m., That article be withdrawn.

Took up Article 6.

Voted, at 9.30 p.m., Not to accept as a Town Way, said street.

Took up Article 7.

Voted, at 10.04 p.m., To appropriate a sum not exceeding \$2500. for the purpose of lowering the bed of Roger's Brook from a point near center of the Public Park, to the opening of culvert at east side of Bartlet Street and installing necessary pipes and retaining walls, and such other work in the deepening and widening of Roger's Brook as may be found necessary, said work to be done under the supervision of the Board of Public Works, in cooperation with the abutting owners.

Took up Article 8.

Voted, at 10.14 p.m., That the question of the collection and disposal of garbage and ashes be referred to the Board of Health and Board of Public Works, as a joint committee, to report at the next annual town meeting.

Took up Article 9.

Voted, at 10.15 p.m., That the meeting be dissolved.

The foregoing is a true copy of the warrant and of the Officers' return on the same, also a true record of the doings of the meeting.

Attest:

GEORGE A. HIGGINS,
Town Clerk

**SPECIAL TOWN MEETING, SEPTEMBER 17, 1923
WARRANT**

THE COMMONWEALTH OF MASSACHUSETTS

ESSEX, ss.: To either of the Constables of the Town of Andover,
GREETING:

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in town affairs to meet and assemble at the Town House in said Andover, on Monday, the seventeenth day of September, 1923, at 8 o'clock p.m., to act on the following articles:

Article 1. — To see if the town will vote to appropriate the sum of \$30,000. as its part of the reconstruction of Haverhill Street in Shawsheen Village from Main Street easterly about 1700 feet, it being understood that the balance of the cost will be borne by the State and County; also to authorize the Town Treasurer, with the approval of the Selectmen, to borrow the said sum of \$30,000. the same to be paid from the tax levy of 1924, on petition and recommendation of the Board of Public Works.

Article 2. — To act on any other business that may legally come before the meeting.

And you are directed to serve this warrant by posting attested copies and publication thereof, seven days at least before the time of said meeting as directed by the By-Laws of the town.

Hereof fail not and make return of this warrant with your doings thereon, at the time and place of said meeting.

Given under our hands this Sixth day of September, A.D. 1923.

FRANK H. HARDY
CHARLES BOWMAN
ANDREW McTERNEN

Selectmen of Andover

ANDOVER, MASS., September 17, 1923

ESSEX, ss.

Pursuant to the foregoing warrant, I, the subscriber, one of the Constables of the Town of Andover, have notified the inhabitants of said town to meet at the time and place and for the purposes stated in said warrant, by posting a true and attested copy of the same on the Town House, on each schoolhouse and in no less than five other public places, where bills and notices are usually posted, and by publication in the Andover Townsman. Said warrants have been posted and published seven days.

FRANK M. SMITH,
Constable

At a legal meeting of the inhabitants of the Town of Andover qualified to vote in town affairs convened in the Town House in said Andover, on Monday, the seventeenth day of September, 1923, at 8 o'clock in the evening, agreeably to the requirements of the foregoing warrant, Moderator Alfred L. Ripley presided and read the warrant.

Took up Article 1.

Voted, at 8.20 p.m., That the town appropriate the sum of \$30,000. as its part of the reconstruction of Haverhill Street in Shawsheen Village from Main Street easterly about 1700 feet, it being understood that the balance of the cost will be borne by the State and County; also that the Town Treasurer, with the approval of the Selectmen, be and hereby is authorized to borrow the said sum of \$30,000. the same to be paid from the tax levy of 1924.

Took up Article 2.

Voted, at 8.22 p.m., That the Cunningham property on Whittier Court, adjoining the Playstead, and purchased by the town in March, 1923, be made a part of the said Playstead and turned over to the Park Commissioners.

Voted, at 8.30 p.m., That the meeting be dissolved.

The foregoing is a true copy of the warrant and of the Officers' return on the same, also a true record of the doings of the meeting.

Attest:

GEORGE A. HIGGINS,
Town Clerk

ACCOUNTANT'S REPORT

October 9, 1923

To the Board of Selectmen,
Mr. Frank H. Hardy, Chairman,
Andover, Massachusetts.

Gentlemen:

I submit herewith my report of an audit of the accounts of the town of Andover for the period from January 1, 1922 to July 24, 1923, made in accordance with the provisions of Section 40, Chapter 44 of the General Laws. This report is in the form of a report made to me by Mr. Edward H. Fenton, Chief Examiner of this Division, who was placed in charge of the work.

Very truly yours,

THEODORE N. WADDELL,
Director of Accounts

Mr. Theodore N. Waddell,
Director of Accounts,
Department of Corporations and Taxation,
State House, Boston.

Sir:

As directed by you, I have made an audit of the books and accounts of the town of Andover for the period from January 1, 1922 to July 24, 1923, and submit the following report thereon:

The financial transactions of the town as recorded on the books of the several departments receiving or disbursing money for the town, or committing bills for collection, were examined for the period covered by the audit.

The accounts of the selectmen were examined and checked. The records of orders drawn for the payment of town funds were checked with the appropriation accounts, and several of the

accounts were found to be overdrawn, this being in violation of Section 31, Chapter 44, General Laws, which provides that:

No department of any city or town, except Boston, shall incur liability in excess of the appropriation made for the use of such department, except in cases of extreme emergency involving the health or safety of persons or property, and then only by a vote in a city of two-thirds of the members of the city council, and in a town by a vote of two-thirds of the selectmen.

Apparently the reason for some of the overdrafts is the practice of making appropriations of smaller amounts than are required for the expenses of departments and depending upon the receipts of these departments to make up the necessary amounts, thereby leaving indefinite sums to be used by the departments. In this connection attention is called to Section 53, Chapter 44, General Laws, which provides that:

All moneys received by any town officer or department, except as otherwise provided by special acts and except fees provided for by statute, shall be paid by such officer or department upon their receipt into the town treasury. Any sums so paid into the town treasury shall not later be used by such officer or department without a specific appropriation thereof.

I would therefore recommend that, in future, all appropriations be made for the full amount to be expended by each department, and that the receipts be estimated by the assessors in fixing the tax rate. This method, while a change from the past, will not cause any increase in the amount to be raised by taxation and will enable the department officials to plan their work better, as they will know early in the year the amounts they will have at their disposal.

I would also recommend a small appropriation for a reserve fund, as provided for by Section 6, Chapter 40, General Laws.

The custom of some departments of keeping a bank account and making payments to the treasurer perhaps two or three times a year of money which they have collected is open to censure. This practice is contrary to the provisions of Section 53, Chapter

44, General Laws, previously quoted. I would therefore recommend that the board of public works, the town clerk, and the cemetery, library, and tax collector's departments comply with this provision of the statute. It has also been customary for the library department to pay its own bills out of a banking account kept by the treasurer of the library. Attention is called in this connection to Section 35, Chapter 41 of the General Laws, which provides that:

The town treasurer shall give bond for the faithful performance of his duties in a sum and with sureties approved by the selectmen, shall receive and take charge of all money belonging to the town, and pay over and account for the same according to the order of the town or of its authorized officers. No other person shall pay any bill of any department. He shall have the authority given to an auditor by section fifty-one, and shall annually render a true account of all his receipts and disbursements and a report of his official acts.

And to Section 52, Chapter 41, General Laws, which requires that:

... The selectmen shall approve the payment of all bills or payrolls of all departments before they are paid by the treasurer, and may disallow and refuse to approve for payment, in whole or in part, any claim as fraudulent, unlawful or excessive.

The books and accounts of the town treasurer were examined and checked in detail. The cash book was footed, and the recorded receipts were verified by a comparison with the records in the departments collecting moneys for the town or committing bills for collection. The records of payments were checked with the selectmen's orders authorizing the treasurer to disburse town funds and with the records of amounts falling due on account of debt and interest and State and county taxes. The cash on hand July 24, 1923, was verified by an actual count and the bank balance was reconciled with the bank statement of July 24, 1923.

The trust funds in the custody of the town treasurer were

examined and verified by comparing them with the savings bank books on file.

The accounts of the tax collector covering the levies of the years 1921 and 1922 were examined and found to be in an unsatisfactory condition. It was found that the assessors of the town had not presented the collector with a tax list covering the warrants for those years as provided by Sections 53 and 54, Chapter 59 of the General Laws, which read as follows:

Section 53. The assessors shall, within a reasonable time, commit the tax list with their warrant to the collector of taxes, and if there is a fire, water, light or improvement district in the town, they shall commit to him a separate list and warrant for the district taxes. If no collector has been chosen, they shall commit such list with their warrants, to a constable; or, if there is no constable, to the sheriff or his deputy; but the assessors of a town shall not commit a tax list to the collector until the bonds of such collector and of the town treasurer have been given and approved as required by law.

Section 54. The tax list committed to the collector shall be, in substance, as follows:

Names and Residences (Give street and No. of residence)	No. of Polls	Poll Tax	Tax on Real Estate	Tax on Personal Property	Total	Time when paid
NON-RESIDENT						
Names	Residences, if known				Tax	

As the collector had no tax list, he has kept a card ledger for the years 1921 and 1922; said cards having been written up by him from the assessors' valuation book. In order to obtain a proof of the taxes, it was necessary for us to make a list of these cards, showing the original assessment against each taxpayer and the financial transactions to July 24, 1923. As several of the cards were missing, it was impossible to make an absolute proof of the condition of the tax levies.

The collector's cash book was footed and the recorded collections were verified by a comparison with the treasurer's cash book. The abatements were checked with the records of abatements granted by the assessors and the outstanding accounts were reconciled as accurately as possible under the existing conditions.

The outstanding accounts were further verified by mailing notices to a number of persons whose names appeared on the cards as owing money to the town, and the replies received to date are in accord with the records.

I would recommend that, in future, the collector, in making payments to the treasurer, show separately the amounts received from taxes, moth assessments, and interest, and that the treasurer show these items separately on his cash book.

The books and accounts kept by the Board of Public Works were examined. It was noted that the bills for water rates and water connections are not added in total when sent out, and that no controlling account is kept of the water register, which is necessary in order to prove the outstanding accounts. The water register was examined and the outstanding accounts on July 24, 1923, were listed.

The Board of Public Works collects its own bills for water rates and water connections, and the town treasurer collects all other bills sent out by the department.

The cash book showing the collections was examined and the collections proved by a comparison with the treasurer's cash book, together with the cash on hand July 24, 1923, not yet paid to the treasurer. The cash on hand was verified by an actual count and the balance in the bank proved by the bank statement of even date.

The sewer and sidewalk assessments were examined and verified and the outstanding accounts listed. The system of accounting in this department could be simplified, and its many ledgers reduced to one.

All appropriations made for the department, whether from revenue or loans, should be entered as separate accounts in the ledger, and all bills and pay rolls should be analyzed and charged against the correct appropriation.

I would recommend that, in future, the department keep a

controlling account of bills sent out for collection, debiting said account with the total of all such bills and crediting said account with all cash collections and abatements on account of same. The balance of this account should at all times show the outstanding bills, and can be proved by the uncollected accounts as shown in the water register.

The town owns library trust funds which are in the custody of the trustees of the public library, and a fuel fund which is in the custody of the trustees of the Cornell Fuel Fund. The securities comprising these funds were examined and listed, the cash transactions during the period covered by the audit being checked and verified, and the income being figured and proved. The records of the cash transactions on account of the Cornell Fuel Fund were not available for the year 1922, as they had been destroyed. The records for the year 1923 were examined and verified and the cash balance on hand August 15, 1923, was verified by the bank statement.

There are four trust funds in the custody of the trustees of the Punchard Free School, which are as follows: Punchard Free School Fund, Barnard Fund, Draper Fund, and Goldsmith Fund. The Punchard Free School Fund and the Barnard Fund were given by deed of gift to the trustees, to be administered by them, the income of said funds to be expended for the benefit of the High School. The Draper Fund was given to the town December 12, 1904, the income from this fund and also from the Goldsmith Fund to be used for the purchasing of prizes for scholarship. The securities comprising these funds were examined and listed August 13, 1923. The cash transactions were verified and the income figured and proved.

The surety bonds of the town treasurer, tax collector, and treasurer of the sinking funds for the faithful performance of their duties were examined, the collector's and the sinking fund treasurer's bonds being found to be in proper form. The town treasurer's bond, however, is in the form of a continuation bond and does not, in my opinion, give the town the protection to which it is entitled. I would therefore recommend that the treasurer have a bond for each year, as is required of the collector of taxes.

The town clerk is not bonded as required by Section 13, Chapter 41, General Laws, which is as follows:

Every town clerk shall, within ten days after his qualification, give bond to the town for the faithful performance of his duties, in such sum and with such sureties as the selectmen may approve. If he does not give bond within the time prescribed, the selectmen may declare the office vacant and fill the vacancy in the manner prescribed in the following section.

Appended to this report are tables showing a reconciliation of the treasurer's cash, summaries of the tax and assessment accounts and of the trust funds in the custody of the town treasurer, the trustees of the library, the Punchard Free School Fund and the Cornell Fuel Fund, together with a statement of the cash transactions of the library. There is also appended a table showing a reconciliation of the cash balance in the possession of the water department July 24, 1923, a table giving the condition of the water loan and sewer loan sinking funds, and a balance sheet reflecting the financial condition of the town on July 24, 1923.

While engaged in making the audit, I received the hearty co-operation of the several town officials, and on behalf of my assistants and for myself I wish to express my appreciation for the co-operation received and the assistance rendered.

Respectfully submitted,

EDWARD H. FENTON,

Chief Examiner

FINANCIAL REPORT

SCHOOLS

GENERAL EXPENSES

Salaries:

Superintendent	\$3800.00	
Attendance Officer	101.40	
Clerk	838.00	
	<hr/>	\$4739.40
Office and Miscellaneous	113.99	113.99
		<hr/>
		\$ 4853.39

EXPENSES OF INSTRUCTION

Supervisors:

Salaries	5742.11	5742.11
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Teachers:

High	16841.46	
Elementary	49922.15	
	<hr/>	66763.61

Textbooks:

High	395.16	
Elementary	836.03	
	<hr/>	1231.19

Supplies:

High	1425.18	
Elementary	1038.38	
	<hr/>	2463.56

<i>Amount carried forward</i>		<hr/>
		\$81053.86

Amount brought forward

\$81053.86

EXPENSES OF OPERATION

Janitors	\$6711.57	
Fuel	9879.56	
Miscellaneous	826.47	
	<hr/>	17417.60

MAINTENANCE

Repairs	3754.86	3754.86
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AUXILIARY AGENCIES

Health	1412.35	
Transportation	5604.60	
	<hr/>	7016.95

MISCELLANEOUS

Tuition	666.45	
Sundries	1969.18	
	<hr/>	2635.63

SUMMARY OF RECEIPTS AND EXPENDITURES

Appropriation	\$111883.00	
Total Expenditures	111878.90	
	<hr/>	
Balance		4.10

TOWN OFFICERS

Appropriation, March, 1923	\$ 10400.00
Frank H. Hardy, Chairman, Selectman, Assessor and Overseer	\$750.00
Walter S. Donald, Selectman, Assessor and Overseer	150.00
Charles Bowman, Selectman, Assessor and Overseer	800.00
Andrew McTernen, Selectman, Assessor and Overseer	800.00
George A. Higgins, Town Clerk and Clerk of Selectmen	1283.30
George A. Higgins, Town Treasurer	1450.00
William B. Cheever, Tax Collector	1800.00
Edith P. Sellars, Clerk and Stenographer	1294.00
Joseph I. Pitman, Building Inspector	499.92
Daniel J. Murphy, Town Counsel	650.00
Walter H. Coleman, Auditor	125.00
John S. Robertson, Auditor	125.00
Harry Sellars, Auditor	100.00
Smart & Flag, Surety Bonds	180.00
Division of Accounts, certification of notes	36.00
Alfred L. Ripley, Moderator	20.00
Charles F. Emerson, auto hire	35.00
Charles F. Emerson, Sealer	62.50
W. J. Morrissey, auto hire	17.50
Elmer F. Conkey, team hire, Assessor	16.00
C. Madeleine Hewes, clerical work	45.30
Lilla D. Stott, probate and real estate transfers	88.40
<i>Amount carried forward</i>	<hr/> \$10327.92

<i>Amount brought forward</i>	\$10327.92	
Andover National Bank, safety deposit box	5.00	
Sampson Murdock Co., directory	5.00	
Banker and Tradesman, subscription	7.00	
Board of Assessors, expenses	31.00	
Board of Selectmen, expenses	20.72	
American Railway Express Co.	.37	
	<hr/>	
Total expenditure	\$ 10397.01	
Balance	2.99	
	<hr/>	
	\$10400.00	\$10400.00
		<hr/>

TOWN HOUSE

Appropriation		\$3000.00
George W. Mears, Janitor	\$210.00	
William C. Brown, Janitor	845.05	
Police Duty	67.00	
Lighting	351.97	
Fuel	950.94	
Equipment and repairs	450.52	
Supplies	222.31	
Labor, removing rubbish	32.00	
	<hr/>	
Total	\$3129.79	
Transferred from Miscellaneous		129.79
	<hr/>	<hr/>
	\$3129.79	\$3129.79

FIRE DEPARTMENT

Appropriation		\$24000.00
Salaries, Engineers	\$1275.00	
Wages, permanent men	11315.00	
Wages, call men	3023.50	
Wages, fire alarm	106.92	
Fire Alarm	783.51	
Fuel	959.64	
Light	240.82	
Maintenance building and furnishings	609.13	
Equipment and repairs	2782.95	
Horses, care of same	993.52	
Miscellaneous	371.62	
Telephone	96.90	
Labor	129.00	
Janitor, Ballardvale	100.00	
New Hose, 1200 feet	1038.00	
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Total expenditures	\$23825.51	
Balance	174.49	
	<hr/>	
	\$24000.00	\$24000.00

FIRE TRUCK

Appropriation	\$10000.00	
Stutz Fire Engine Co.	\$9000.00	
Balance	1000.00	
	\$10000.00	\$10000.00

BRUSH FIRES

Appropriation	\$1000.00	
Pay Rolls	\$952.50	
George H. Hadley & Co., C. soda	25.09	
C. R. Hoffman, lunches	3.85	
J. F. McDonough, team hire	7.50	
Terry Press, printing	10.50	
	\$999.44	
Total	\$999.44	
Balance	.56	
	\$1000.00	\$1000.00

ELECTION AND REGISTRATION

Appropriation		\$600.00
Precinct Officers		
Precinct One	\$107.50	
Precinct Two	52.00	
Precinct Three	55.50	
Precinct Four	51.00	
Police Duty	15.00	
Printing	63.60	
Registrars of Voters	75.00	
C. R. Hoffman, lunches	7.75	
American Woolen Co., ballot boxes	27.80	
Total	\$455.15	
Balance	144.85	
	\$600.00	\$600.00

POLICE DEPARTMENT

Appropriation		\$14500.00
Special Appropriation		700.00
Frank M. Smith, Chief	\$1872.00	
Pay Roll, Patrolmen	9248.35	
Wages, Special Police	868.24	
A. A. Roesch, truck	759.82	
Maintenance, truck and motorcycle	486.40	
Miscellaneous	227.93	
Equipment and repairs	299.26	
Telephone	137.95	
Auto hire	103.50	
Light	64.95	
George B. Carmichael, Dog Officer	65.00	
Auto List Pub. Co., subscription	50.00	
Total	\$14183.40	
Balance	1016.60	
	<hr/>	<hr/>
	\$15200.00	\$15200.00

BOARD OF HEALTH

Appropriation		\$3600.00
Lotta Johnson, Nurse, salary	\$1500.00	
Lotta Johnson, use of car	200.00	
Lotta Johnson, Inspector of Slaughtering	200.00	
Dr. Charles E. Abbott, salary	75.00	
Dr. Charles E. Abbott, fumigation	36.00	
F. H. Stacey, salary	50.00	
F. H. Stacey, fumigation and supplies	241.75	
B. T. Haynes, salary	50.00	
B. T. Haynes, fumigation	11.28	
Ray S. Youmans, Inspector of Animals	350.00	
Joseph P. Nolan, Plumbing Inspector	234.00	
John S. Buchan, Plumbing Inspector	30.00	
Essex Sanatorium, board of patients	550.78	
Reading State Sanatorium, board of patient	128.00	
Printing	19.50	
C. A. Hill, plate	3.85	
William Burke, burying animals	12.00	
John Fraize, burying animals	8.00	
Modern Hospital Pub. Co., subscription	3.00	
C. L. Wilson, transportation	1.50	
C. J. Francis, supplies	1.25	
Total	\$3705.91	
Transferred from Miscellaneous		105.91
	\$3705.91	\$3705.91

PRINTING AND STATIONERY

Appropriation		\$2000.00
The Andover Press, printing, advertising and supplies	\$1601.43	
Post Office, envelopes	145.42	
Hobbs & Warren, blanks	17.35	
Burroughs Adding Machine Co., services	16.68	
F. & E. Check Writer Sales Co., machine	35.00	
A. L. Cole Co., desk pads	16.20	
Munson Supply Co., speed keys	6.50	
P. B. Murphy, blanks	16.00	
Terry Press, printing	5.75	
Henry M. Meek Pub. Co., directory	5.00	
Charles N. Smart, machine	5.75	
A. W. Brownell Corp., tax tables	6.10	
The Carter's Ink Co., ink	4.50	
H. M. Meserve & Co., supplies	10.36	
T. H. Von Kamecke, folders	4.50	
Blackbird Pen Co., pens	3.75	
Bank & Office Equip. Co., steel case	11.00	
The Birmingham Pen Co., pens	7.25	
Becker & Co., paper	6.05	
Avon Envelope Co., envelopes	4.65	
James R. Barrie, stamp pads	3.50	
The Chicataubut Press, blanks	2.00	
Wright & Potter Printing Co., tax blanks	7.00	
Cheney Paper Co., paper	4.12	
Total	\$1945.86	
Balance	54.14	
	\$2000.00	\$2000.00

TREE WARDEN AND MOTH DEPARTMENT

MOTH WORK

Appropriation		\$15000.00
Edward H. Berry, Superintendent	\$773.25	
Edward H. Berry, expenses	14.40	
Pay Rolls	2866.23	
Fitz Henry Guptill Co., stock and rebuilding sprayer	1864.04	
Equipment	567.68	
Lead and creosote	1015.40	
Team hire	267.00	
Rent	60.00	
Miscellaneous	57.42	
Total	\$7485.42	

TREE WARDEN

Edward H. Berry, tree warden	812.50
Pay rolls	4357.19
Jerry Golden, labor	396.00
Equipment and repairs	405.99
Trees	113.25
Telephone	32.74
Sulphur and creosote	117.00
Truck	606.95
Supplies	91.98
Rent	50.00
Freight	43.54

Total	\$7027.14
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Total expenditure	\$14512.56
Balance	487.44

	\$15000.00	\$15000.00
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SPRING GROVE CEMETERY

Appropriation, March 1923		\$5200.00
F. A. Swanton, Supt.	\$1475.00	
Edith P. Sellars, Clerk	110.00	
Pay Rolls	3063.65	
Elmer F. Conkey, moving building	102.50	
Equipment and repairs	92.15	
Printing and stationery	26.00	
Miscellaneous	304.97	
Water	8.24	
	<hr/>	
Total expenditures	5182.51	
Balance	17.49	
	<hr/>	
	\$5200.00	\$5200.00

INSURANCE

Appropriation, Fire		\$3500.00	
Appropriation, Workmen's Compensation		2500.00	
Merrimack Mut. Fire Ins. Co.	\$5082.41		
Smart & Flagg, Agents	45.00		
Total	\$5127.41		
Balance	872.59		
		\$6000.00	\$6000.00

HAY SCALES

Appropriation		\$125.00	
William C. Brown, weigher	\$100.00		
Repairs on scales	17.60		
Total	\$117.60		
Balance	7.40		
		\$125.00	\$125.00

STREET LIGHTING

Appropriation		\$10000.00	
Lawrence Gas Co.	\$9686.38		
Balance	313.62		
		\$10000.00	\$10000.00

SEWER SINKING FUND

Appropriation		\$1000.00
Arthur T. Boutwell, Treas. Sinking Fund	\$1000.00	
	<hr/>	<hr/>
	\$1000.00	\$1000.00

WATER SINKING FUND

Appropriation		\$750.00
Arthur T. Boutwell, Treas. Sinking Fund	\$750.00	
	<hr/>	<hr/>
	\$750.00	\$750.00

MEMORIAL HALL LIBRARY

Appropriation		\$4000.00
F. S. Boutwell, Treas.	\$4000.00	
	<hr/>	<hr/>
	\$4000.00	\$4000.00

STATE TAXES

Andover's proportion of State Tax		\$24000.00
Andover's proportion of Highway Tax		4353.00
Bank Tax		2257.42
Civilian War Poll Tax		7737.00
Soldier's Exemption		2.78
Corporation Tax		147.17
Treasurer of Commonwealth	\$38497.37	
	<hr/>	<hr/>
	\$38497.37	\$38497.37

COUNTY TAX

Andover's proportion of County Tax		\$22708.20
Walter P. Babb, County Treasurer	\$22708.20	
	<hr/>	<hr/>
	\$22708.20	\$22708.20

DOG TAX

Received from County Treasurer		\$502.82
F. S. Boutwell, Treas. Memorial Hall	\$502.82	
	<hr/>	<hr/>
	\$502.82	\$502.82

MEMORIAL DAY

Appropriation		\$550.00
Jesse S. Billington, Quartermaster	\$550.00	
	<hr/>	<hr/>
	\$550.00	\$550.00

POST 99, G. A. R.

Appropriation		\$100.00
Jesse S. Billington, Quartermaster	\$100.00	
	<hr/>	<hr/>
	\$100.00	\$100.00

RETIREMENT OF VETERANS

Appropriation		\$300.00
Paid to Veteran	\$300.00	
	<hr/>	<hr/>
	\$300.00	\$300.00

PUBLIC DUMP

Appropriation		\$75.00
Olof Benson, Keeper	\$75.00	
	<hr/>	<hr/>
	\$75.00	\$75.00

INTEREST

Appropriation		\$25400.00
Water Coupons	\$4862.50	
Sewer Coupons	7667.50	
High School Coupons	3000.00	
Shawsheen Bridge Coupons	475.00	
Main Street Coupons	4500.00	
Temporary Loans	6930.20	
	\$27435.20	
Total		
Overdraft		2035.20
	\$27435.20	\$27435.20

ANDOVER POST NO. 8, AMERICAN LEGION

Appropriation		\$900.00
Paid American Legion	\$827.94	
Balance	72.06	
	\$900.00	\$900.00

WAR MEMORIAL COMMITTEE

Appropriation		\$1200.00
John Nolen, plans	\$700.00	
O'Connell Ingalls Advt. Agency	15.36	
The Andover Press, printing	40.50	
	<hr/>	
Total	755.86	
Balance	444.14	
	<hr/>	
	\$1200.00	<hr/> \$1200.00

NOTES GIVEN

Andover National Bank, Note 40	Rate	\$4.00	\$10000.00
Andover National Bank, Notes 41-50,	“	4.18	150000.00
Andover National Bank, Notes 51-56,	“	4.39	100000.00
Andover National Bank, Note 57	“	4.27	30000.00
			<hr/>
			\$290000.00

NOTES PAID

Andover National Bank		\$260000.00	
Note 57, Due April 24, 1924		30000.00	
		<hr/>	\$290000.00

MISCELLANEOUS

Appropriation	\$1200.00
Telephone	\$22.95
Herbert Clarke, repairs	38.25
C. F. Emerson, sealer	83.33
W. and L. E. Gurley, sealer's supplies	179.66
A. P. Wright, field driver	25.00
Merrimack Mutual Fire Insurance Co., Treasurer's Bond	20.00
C. S. Buchan, shades	10.00
Fred N. Abbott, legal service	21.00
County of Essex, petition	3.00
H. M. Meserve & Co., supplies	19.87
J. H. Playdon, decorating	10.00
G. A. Higgins, sundry expenses	43.50
John Colbath, labor	6.00
John A. Riley, labor	20.90
F. H. Hardy, recording deed	2.34
American Railway Express Co.	1.49
Boston and Lawrence Despatch	.38
M. J. Mahoney, return of deaths	2.50
Joseph H. Couture, return of deaths	1.00
E. M. Lundgren, return of deaths	18.25
E. L. Bennett, return of deaths	1.50
Dr. J. J. Daly, return of births	4.50
Dr. W. D. Walker, return of births	11.50
Dr. P. J. Look, return of births	11.75
Dr. J. B. Masse, return of births	1.25
Dr. E. D. Lane, return of births	6.00
Dr. Philip W. Blake, return of births	1.00
Dr. R. M. Birmingham, return of births	.75

Amount carried forward

\$567.67

<i>Amount brought forward</i>	\$567.67	\$1200.00
Dr. G. S. Allen, return of births	1.00	
Dr. F. A. Cregg, return of births	1.25	
	<hr/>	
Total expenditure	\$569.92	
Transferred to Town House	129.79	
Transferred to Board of Health	105.91	
Transferred to Soldiers' Relief	152.35	
Transferred to Almshouse	200.00	
Balance	42.03	
	<hr/>	<hr/>
	\$1200.00	\$1200.00

REDEMPTION OF BONDS

Appropriation		\$45500.00
From Water Sinking Fund		10000.00
Six High School Bonds	\$6000.00	
Seven Sewer Bonds	7000.00	
Twenty Main Street Bonds	20000.00	
Shawsheen Bridge Bonds	2500.00	
Twenty Water Bonds	20000.00	
	<hr/>	<hr/>
	\$55500.00	\$55500.00

OVERSEERS OF THE POOR

The general efficiency and appearance of our Almshouse plant has been improved during the current year. A barn has been added and the grounds around the Almshouse have been loamed and finish graded.

Many of the old dead trees are now being removed in an effort to further improve the general appearance of the house and grounds. Minor alterations and improvements have been made in the plant; all within the appropriation granted at our last Town meeting.

Outside relief and Mothers' Aid will, this year, call for slightly increased appropriations. Every effort has been made to hold the expenditure of these divisions of our Poor Department down to the lowest sum possible, but all needy cases must be cared for and an increased appropriation is unavoidable.

The Board calls attention to the efficient manner in which the Almshouse is being cared for by our matron. A kindness and firmness is evident that speaks well both for the comfort of the inmates and for a careful consideration and expenditure of the public funds. It is pleasing to note that Francis Bardwell, State Inspector of Almshouses, has stated in his 1923 report that Andover's Almshouse is a model house and a credit to both Town and State in the matter of equipment, arrangement, and management.

FRANK H. HARDY
CHARLES BOWMAN
ANDREW McTERNEN

Overseers of the Poor

ALMSHOUSE EXPENSES

Appropriation		\$6600.00
Mrs. F. A. Swanton, matron	\$900.00	
Wages, employees	1188.63	
Groceries and provisions	2563.29	
Fuel	1033.20	
Light	356.71	
Clothing	109.74	
Equipment and repairs	301.85	
Maintenance buildings and grounds	88.85	
Medicine and medical aid	46.85	
Sundries	73.72	
Telephone	17.20	
Water	80.00	
Funeral expenses	50.00	
F. A. Swanton, board of horse	200.75	
C. F. Emerson, moving	146.75	
Miscellaneous	14.40	
	<hr/>	
Total expenditure	\$7171.94	
Transferred from Miscellaneous		200.00
Transferred from Special Almshouse		371.94
	<hr/>	<hr/>
	\$7171.94	\$7171.94

SOLDIERS' RELIEF

Appropriation		\$1500.00
Total expenditure	\$1652.35	
Transferred from Miscellaneous		152.35
	\$1652.35	<u>\$1652.35</u>

STATE AID

Appropriation		\$600.00
Total expenditure	\$386.00	
Balance	214.00	
	<u>\$600.00</u>	<u>\$600.00</u>

OUTSIDE RELIEF

Appropriation		\$5000.00
Paid out of Almshouse	\$3096.73	
Paid other cities and towns	615.90	
Paid State	392.57	
Paid account of State	845.75	
	<u>4950.95</u>	
Total expenditure	4950.95	
Balance	49.05	
	<u>\$5000.00</u>	<u>\$5000.00</u>

NEW ALMSHOUSE

Appropriation, March 1923		\$6500.00
Lawrence Gas Co.	\$223.80	
Perley F. Gilbert, commission	162.54	
John F. McDonough, grading	1359.05	
E. W. Pitman Co.	1826.34	
W. H. Welch Co., plumbing	381.72	
Marion L. Wood, barn	300.00	
Keene Screen Co., screens	300.00	
Joseph J. McCarthy, foundation	510.00	
Wilson Building Moving Co., moving barn	500.00	
American Woolen Co., labor on barn	314.10	
The Higgin Mfg. Co., window screens and shades	110.00	
Elmer F. Conkey, grading	45.00	
Underwriter's Equipment Co., Fire ex- tinguishers	37.50	
Dana W. Clark, engineering	18.00	
Boston and Lawrence Despatch	.38	
	<hr/>	
Total expenditure	\$6088.43	
Transferred to Almshouse	371.94	
Balance	39.63	
	<hr/>	
	\$6500.00	<hr/> \$6500.00

AIDING MOTHERS WITH DEPENDENT CHILDREN

Appropriation			\$2500.00
Town cases		\$3200.45	
Paid other towns		663.82	
Paid account other towns		1460.69	
		<hr/>	
Total expenditure		5324.96	
Received from State	\$1532.90		
Received from towns	1291.13		
	<hr/>	2824.03	
		<hr/>	
Net expenditure		2500.93	
Overdrawn			.93
		<hr/>	<hr/>
		\$2500.93	\$2500.93

STATISTICS OF ANDOVER ALMSHOUSE

Number of inmates January 1, 1923	10
Number admitted during year	2
Number of deaths	2
Number discharged	1
Number of inmates January 1, 1924	9
Number between 20 and 30 years of age	1
Number between 60 and 70 years of age	4
Number between 70 and 80 years of age	2
Number between 80 and 90 years of age	2

ASSESSORS' REPORT

We herewith submit our annual report.

Number of males assessed	2579	
Personal estate	\$3,660,020.00	
Real estate	11,164,450.00	
	<hr/>	\$14,824,470.00
Poll tax	12,895.00	
Tax on personal estate	97,725.12	
Tax on real estate	298,092.31	
	<hr/>	\$408,712.43
Moth assessments		2,143.27
Abatements		
Personal	\$445.71	
Real estate	246.18	
	<hr/>	691.89
Rate of taxation per \$1000	\$26.70	
Number of		
Horses assessed		441
Cows assessed		916
Neat cattle		54
Swine		101
Fowl		20493
Dwellings		2011
Acres of land		17804

FRANK H. HARDY, *Chairman*
 CHARLES BOWMAN
 ANDREW McTERNEN
Board of Assessors

REPORT OF TREE WARDEN

This has been a very successful year for the Tree Department.

We have cut and burned approximately forty miles of roadside brush, removed fifty large trees and planted seventy-five new shade trees in different sections of the town. We also pruned shade trees on twenty streets. There is as much needed to be done in 1924. In order to carry on the work of this Department, I ask that the sum of \$6000.00 be appropriated.

Respectfully submitted,

EDWARD H. BERRY

Tree Warden

REPORT OF MOTH SUPERINTENDENT

I herewith submit my report of the Moth Department for year ending December 31, 1923.

The moth situation in Andover looks very favorable and I want to thank the property owners for their earnest co-operation. The pests are on the decrease, still there are enough left to seed the town if we do not use the same precaution as in previous years. We have had two of our old sprayers rebuilt with new engines so we are well equipped for the spraying season.

To carry on the work of this department, I ask that the sum of \$6000.00 be appropriated.

Respectfully submitted,

EDWARD H. BERRY

Moth Superintendent

POLICE DEPARTMENT

REPORT OF CHIEF

To the Board of Selectmen:

GENTLEMEN:—

I hereby submit the report of the Police Department for the year ending December 31, 1923.

Whole number of arrests 208. Females 4. Males 204

OFFENSES FOR WHICH ARRESTS WERE MADE

Assault	5
Assault with intent to rob	1
Assault on wife	1
Assault to rape	1
Arson	1
Breaking and entering	2
Bastardy	1
Drunk	30
Disturbance	5
Disposing of leased property	1
Fishing on the Lord's Day	6
Fishing without license	2
Gaming on the Lord's Day	4
Gunning without license	1
Insane	3
Interfering with an officer	2
Keeping unlicensed dog	1
Larceny	8
Loaded revolver in possession of	2
Manslaughter	2
Operating Motor Vehicle while under the influence of liquor	2

Operating Motor Vehicle so as to endanger the lives and safety of the people	2
Operating Motor Vehicle without license	9
Minor Violation of Motor Vehicle Law	72
Non-payment of Taxes	1
Truancy	1
Trespass	1
Unlawful appropriation of Motor Vehicle	2
Violation of Liquor Law	2
Violation of Town ordinance	2
Vagrancy	7
Indecent exposure	1
Malicious mischief	4
Total	208

DISPOSITION OF CASES

Appealed	10
Paid fines in Lower Court	69
Probation	28
On file	12
Discharged	22
Committed to Danvers Insane Hospital	4
Committed to Tewksbury (State Infirmiry)	6
Committed to House of Correction	7
Committed to State Farm	3
Suspended sentence to House of Correction	4
Suspended sentence to State Farm	2
Returned to Parents	7
Continued for sentence	22
Held for Grand Jury	6
Arrested for out of town officers	6
Total	208

MISCELLANEOUS

Fines paid in Lower Court	\$1635.00
Fines paid in Superior Court	416.60
Value of property stolen	1800.00

Value of property recovered	1500.00
Police Equipment	1000.00
Dead bodies cared for	4
Doors found open at night	102

SUPERIOR COURT FINDINGS

No Bill Found	2
Cases Pending	4
On Probation	2
Paid Fines	7
Nol prossed	5

FRANK M. SMITH

Chief of Police

SPRING GROVE CEMETERY

The trustees of Spring Grove Cemetery submit the following report:—

The care of the cemetery has been carried on as usual and much has been accomplished according to finances.

A large tract on the east side has been cleared and broken up. Over an acre has been sown down and made available for new lots.

The tool house has been moved from its old location to the entrance of the cemetery, making it more convenient for the Superintendent and others.

Over 50 small pines have been set out along the west side of the cemetery. This spot is very sandy and not suitable for lots. Numerous shrubs have been set out on both sides of the cemetery, especially where the old pines were.

Favorable comment has been made by all visiting caretakers and undertakers of our new tomb.

Warren L. Johnson who has served on the Board so faithfully resigned on account of his departure to Nova Scotia. Mr. Fred Swanton has been chosen to fill his place.

The Board of Trustees ask outside of the regular appropriation, for \$6500.00 to purchase the adjacent land which borders the cemetery on the east side and takes in all the land to Abbot Street and Porter Road. This the board feels is necessary as Andover is growing fast and with this new land will complete the cemetery for years to come.

Respectfully submitted,

WALTER I. MORSE, *Chairman*

DAVID R. LAWSON

DANIEL H. POOR

FRED A. SWANTON

EVERETT M. LUNDGREN

JOHN W. STARK

FRED E. CHEEVER

FRED E. CHEEVER, *Clerk of the Board of Trustees.*

STATISTICS OF SPRING GROVE CEMETERY

Number of lots sold as per last report	550
Number of lots sold in 1923	8
Total number sold	558
Total number of single graves sold	201
Number of interments as per last report	1631
Number of interments in 1923	57
Total number of interments	1688

FRED A. SWANTON

Superintendent

ANIMAL INSPECTOR'S REPORT

To the Board of Selectmen:—

GENTLEMEN: — I hereby submit my report for the time beginning January 8, 1923, and ending December 31, 1923.

Number of cattle inspected	1385
Number of swine	471
Number of sheep	22
Number of stables	143
Number of cattle condemned affected with tuberculosis	6
Number of stables disinfected	6
Interstate cattle identified and released	165
Number of dogs quarantined	20
Number of dogs affected with rabies	30

Respectfully submitted,

RAY S. YOUMANS

Inspector of Animals

REPORT OF BUILDING INSPECTOR

To the Board of Selectmen.

GENTLEMEN:—I herewith submit my report of the Building Inspector's Department from December 31, 1922, to December 31, 1923.

Whole number of permits granted	204
Dwellings	98
Two-tenement dwellings	9
Garages	31
Additions and alterations	23
Business blocks	1
Stores	3
Warehouses	4
Apartment of twenty tenements	1
Sheds	4
Dairy	1
Clubhouses	1
Schoolhouses	1
Coal pockets	1
Banks	1
Henhouses	7
Camps	7
Filling stations	2
Elevators	9

Respectfully submitted,

JOSEPH I. PITMAN

Building Inspector

MUNICIPAL PROPERTIES AND PUBLIC IMPROVEMENTS

	Land and Buildings	Equip. and other Property	Total
Town Hall	\$ 62900	\$ 3000	\$ 65900
Fire Department	41500	30000	71500
Police Department		1000	1000
Schools	293500	10000	303500
Library	42000	10000	52000
Water Department	84450	300600	385050
Sewer Department	8000	475000	483000
Highway Department	4500	5275	9775
Tree Warden and Moth De- partment		5000	5000
Almshouse	41000	7500	48500
Park Department	30200		30200
Cemeteries	16000	500	16500
Weights and Measures		350	350
Hay Scales		350	350
Old Schoolhouse, Ballard- yale	5000		5000
Punchard School Fund		77000	77000
Memorial Hall Invest. Funds		73491	73491
Other Unproductive Proper- ties			
9 acres land, Burnham Rd.	2500		2500
9 acres land, Indian Ridge (gravel pit)	3000		3000
Totals	\$634550	\$999066	\$1633616

TOWN OF ANDOVER — JURY LIST

Abbott, Newton S.	Carpenter	River Rd.
Armitage, Charles H.	Operative	123 Haverhill St.
Averill, George L.	Farmer	Reservation St.
Bailey, Charles L.	Retired	Main St.
Bailey, Henry B.	Farmer	High Plain Rd.
Bailey, Ralph	Farmer	Porter Rd.
Bailey, Samuel H.	Farmer	Porter Rd.
Bancroft, William A.	Retired	Lowell Junc.
Bassett, Arthur W.	Clerk	Hidden Rd.
Baxter, George H.	Gardener	43 Lowell St.
Barrett, Patrick J.	Ins. Collector	88 Chestnut St.
Boutwell, Edward W.	Farmer	Pleasant St.
Boutwell, Everett S.	Farmer	Pleasant St.
Burns, David F.	Signal Operator	Chester St.
Cates, A. Lincoln	Gardener	47 Whittier St.
Cannon, Gordon R.	Salesman	54 Salem St.
Carter, George M.	Farmer	High Plain Rd.
Chase, Herbert F.	Storekeeper	Summer St.
Clark, Herbert	Carpenter	Tewksbury St.
Cole, Joseph F.	Retired	Hidden Rd.
Cole, Roscoe K.	Carpenter	115 Elm St.
Coleman, Walter H.	Retired	42 Chestnut St.
Comeau, Arthur N.	Carpenter	Highland Rd.
Coutts, William C.	Retired	60 Maple Ave.
Dane, George A.	Dresser	Andover St.
Doyle, Thomas J.	Fireman	Holt Rd.
Disbrow, George W.	Farmer	Chandler Rd.
Dunnells, George C.	Watchman	6 Sutherland St.
Fairweather, James D.	Gardener	15 Abbot St.
Fleming, Edward, Jr.	Chauffeur	54 Haverhill St.
Flint, Edwin M.	Farmer	Pleasant St.

Flaherty, Michael J.	Spinner	River St.
Garland, George M.	Electrician	Prospect Hill Rd.
Gordon, Alexander	Belt Maker	82 Poor St.
Hannon, Patrick J.	Retired	Elm St.
Harrington, Daniel F.	Farmer	Osgood St.
Hill, Charles A.	Electrician	13 Chestnut St.
Hill, Paul	Farmer	Jenkins Rd.
Hill, Ira B.	Night Watchman	Lupine Rd.
Hilton, Henry	Operative	67 High St.
Holt, George A.	Carpenter	8 Summer St.
Hovey, James H.	Carpenter	Main St.
Jaques, Robert	Farmer	River St.
Jaquith, Newton	Electrician	Main St.
Keane, Mark M.	Clerk	Moraine St
Kendall, Frank H. E.	Carpenter	7 Chestnut St.
Lawson, George D.	Retired	35 Maple Ave.
Lawson, John B.	Machinist	9 Chestnut St.
Lee, Harry F.	Farmer	Pleasant St.
Lynch, Joseph P.	Switchman	Tewksbury St.
Mahoney, Timothy J.	Clerk	Whittier St.
May, George M.	Painter	Main St.
McIntyre, William D.	Clerk	Andover St.
Miller, George R.	Salesman	Center St.
Mosher, James R.	Clerk	21 Balmoial St.
Morrissey, William B.	Electrician	66 Poor St.
Nason, Harry C.	Carpenter	Clark Rd.
Newton, Charles M.	Poultry Business	Boutwell Rd.
Nolan, Joseph P.	Plumber	7 Cuba St.
Noyes, John L.	Farmer	Lovejoy Rd.
O'Donnell, Hugh F.	Moulder	Center St.
O'Donnell, John A.	Switchman	Marland St.
Petrie, George B.	Janitor	Chickering Ct.
Pike, Warren G.	Farmer	Laurel Lane
Pitman, Joseph I.	Carpenter	17 Summer St.
Platt, Henry W.	Overseer	Center St.
Purcell, James F.	Baker	36 Elm St.
Reilly, Beirnard J.	Gardener	79 Haverhill St.
Remmes, Joseph T.	Electrician	Missionary Lane
Rennie, George	Farmer	Argilla Rd.

Riley, John A.	Retired	Center St.
Riley, Joseph A.	Wool Sorter	Center St.
Robinson, William C.	Blacksmith	427 No. Main St.
Scott, David M.	Warp Dresser	19 Avon St.
Shaw, Irving R.	Wool Sorter	High St.
Sherry, Frank J.	Pattern Maker	Andover St.
Sherry, Richard	Moulder	Chestnut St.
Stott, Joseph E.	Clerk	High St.
Stewart, James	Retired	Red Spring Rd.
Taylor, Loren E.	Clerk	11 Washington Ave.
Todd, Henry	Clerk	60 Poor St.
Trow, Henry J.	Wool Sorter	River St.
Valentine, Franklin S.	Clerk	20 Elm St.
Walker, Salmond C.	Carpenter	Chester St.
Ward, George D.	Farmer	Lowell St.
Whitman, David O.	Rubber Worker	9 Pine St.

REPORT OF TAX COLLECTOR

1920

Amount of warrant		\$804.09
Added to warrant		198.22
Moth work		1.30
Interest		129.76
Collected taxes	\$1002.31	
Collected Moth work	1.30	
Interest	129.76	

\$1133.37	\$1133.37
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1921

Amount of warrant		\$15062.73
Added to warrant		66.44
Moth work		419.35
Interest		1529.93
Collected taxes	\$14680.60	
Collected Moth work	419.35	
Interest	1529.93	
Abated	171.64	
Uncollected	*276.93	

\$17078.45	\$17078.45
------------	------------

1922

Amount of warrant		\$46755.50
Added to warrant		27.97
Moth work		378.48
Interest		1274.02
Collected taxes	\$32164.02	
Collected Moth work	378.48	
Interest	1274.02	
Abated	325.40	
Uncollected	14294.05	

\$48435.97	\$48435.97
------------	------------

*Amount now collected

1923

Amount of warrant		\$410855.70
Added to warrant		339.02
Interest		108.35
Moth work		1896.57
Collected taxes	\$356658.41	
Collected Moth work	1896.57	
Interest	108.35	
Abated	1558.89	
Uncollected	52977.42	
		<hr/>
	\$413199.64	\$413199.64

SUMMARY COLLECTOR'S CASH ACCOUNT, 1923

AMOUNT COLLECTED AND PAID TO TOWN TREASURER

	<i>Taxes</i>	<i>Moth Work</i>	<i>Interest</i>	<i>Total</i>
1920	\$ 1002.31	\$ 1.30	\$ 129.76	\$ 1133.37
1921	14680.60	419.35	1529.93	16629.88
1922	32164.02	378.48	1274.02	33816.52
1923	356658.41	1896.57	108.35	358663.33
Int. on Deposits			257.16	257.16
	<hr/>	<hr/>	<hr/>	<hr/>
	\$404505.34	\$2695.70	\$3299.22	\$410500.26

WILLIAM B. CHEEVER

Collector of Taxes

CORNELL FUND

RECEIPTS

Amount of Fund		\$5000.00
Deposited in Savings Bank		5000.00
Balance from last account	\$144.75	
Savings Bank interest	245.00	
	<hr/>	\$389.75

EXPENDITURES

Expended for coal and wood	\$182.56	
Balance on hand	207.19	
	<hr/>	\$389.75

JOHN C. ANGUS
CHARLES N. MARLAND
W. DACRE WALKER

Trustees

FIRE DEPARTMENT

To the Board of Selectmen.

GENTLEMEN:—I herewith submit the report of the Andover Fire Department, from January 1, 1923, to January 1, 1924.

During this time the Department has answered 160 bell and 22 still alarms of fire.

Have laid 8050 feet of 2½-inch hose and 3025 feet of ¾-inch hose, using 1010 gallons of chemical, and 910 feet of ladders.

Value of buildings where fires have occurred \$440,500: loss by fires \$165,000, mostly covered by insurance.

The Department consists of one Combination Hose and Chemical, one Combination Hose, Chemical and Pump, one Ladder Truck, one Brush Fire Truck, one two-horse Hose Wagon, one exercise wagon, two sleds, and four sets of double harness. We have 6000 feet of 2½-inch hose in good condition.

CHARLES F. EMERSON

Chief Engineer

BOARD OF HEALTH NURSE AND AGENT

To the Board of Health.

There have been 213 cases of contagious diseases reported, classified and compared with 1922 and 1921 as follows:

	1923	1922	1921
Influenza	51	125	0
Tuberculosis	6	11	10
Incephalitis Lethargica	0	0	0
Typhoid Fever	0	0	6
Scarlet Fever	15	15	36
Diphtheria	8	16	21
Chicken Pox	18	14	25
Whooping Cough	46	75	2
Measles	16	44	358
Mumps	5	7	5
Suppurative Conjunctivitis	0	0	1
Lobar Pneumonia	15	14	4
Anterio Poliomyelitis	1	2	3
German Measles	3	1	0
Septic Sore Throat	0	2	0
Ophthalmia Neonatorum	2	1	0
Gonorrhea	5	1	0
Syphilis	4	1	0
Rabies	18	0	0
	<hr/> 213	<hr/> 328	<hr/> 471

DEATHS FROM CONTAGIOUS DISEASES

	1923	1922	1921
Tuberculosis	3	5	6
Typhoid Fever	0	0	1
Tetanus	0	0	2
Measles	0	0	1
Lobar Pneumonia	0	3	2
Scarlet Fever	0	0	1
Diphtheria	0	3	0
Influenza	3	0	0
	6	11	13

During the year I made 1749 sanitary and sick calls.

Miscellaneous visits as follows:

Accident, emergency and obstetrical	21
Erysipelas	23
Carcinoma	4
Diphtheria Cultures for diagnosis	3
Diphtheria Cultures for release	53
Dressings	40
Prenatal and child-welfare	117
	261

This year has differed to a certain extent as to Public Health work. The public seemed to have been more interested as to sanitation. Many complaints were made where careless people were the cause of unhealthy nuisances.

The public as a whole are beginning to realize the necessity of clean and sanitary surroundings; that it is imperative that all rules and regulations be enforced if we wish to preserve a high standard of living and enjoy good health. Many of the complaints were due to the fact that much refuse was dumped upon private property, which is contrary to town rules. All refuse must be deposited at the Public Dump.

It is true we have some very unsightly places which, though we have tried to remedy them, are in some cases only unsightly and not unsanitary. Where there is no danger to the health of

the public we have no laws by which to inforce the cleaning up of such places.

As the public will notice we have had what one could term a very fine health record for the year 1923. There have been fewer cases of contagious diseases, owing to the fact that the Board of Health has insisted upon strict quarantine. It may seem hard for those who are unfortunate enough to have some communicable disease, to live up to the laws of quarantine, but we sincerely hope they will be farsighted enough to know it is for the welfare of the community in which they live, and that they in turn will also derive a benefit in the end.

Of the two hundred babies born in the past year there were only eighteen who did not reach the twelve-month period, which brings down the infant mortality to a great extent, when it is compared with the report of previous years. I think in the near future the expectant mother is going to pay more attention to prenatal preparation, which, medical science has proven, will give a better foundation to the new-born infant and also decrease infant mortality.

To date there has been something like seven hundred dollars spent by private individuals for the care and prophylactic treatment of rabies. We have had very fine co-operation from many departments for the prevention of the spread of this disease, but I am sorry to say, with all this aid, we have had a large number of people who were exposed to this most dreaded and dangerous menace. We have had excellent service from the State Department of Health; for, whenever a head of an animal has been sent to their laboratory for examination and diagnosis and rabies was found to exist, we have always received prompt notice; and such prompt attention and expert advice from the state officials has been of inestimable value.

The law as to the reporting of contagious diseases remains the same and all communicable diseases must be reported to the Board of Health. If a physician is not called in and a contagious disease exists in a family the head of said family will be held responsible if the case is not reported immediately upon discovery.

Respectfully submitted,

LOTTA JOHNSON, R. N.

INSPECTOR OF SLAUGHTERING

To the Board of Health.

GENTLEMEN:

During the year I inspected and passed as suitable for food:

Calves	5
Hogs	48

Respectfully submitted,

LOTTA JOHNSON, R. N.

Inspector

TREASURER'S REPORT

FINANCIAL STATEMENT

Liabilities

Water Bonds, 4% (\$3000 due 1924)	\$46000.00	
Water Bonds, 3½% (3000 due 1924)	29000.00	
Water Bonds, 4¾% (4000 due 1924)	36000.00	
Sewer Bonds, 4% (5000 due 1924)	65000.00	
Sewer Bonds, 5% (2000 due 1924)	34000.00	
High School Loan, 4% (6000 due 1924)	69000.00	
Shawsheen Bridge Loan, 4¾% (2500 due 1924)	7500.00	
Main St. Loan, 4½% (20000 due 1924)	80000.00	
Sewer Bonds, 4¼% (5000 due 1924)	150000.00	
Shawsheen School Bonds, 4¼% (12000 due 1924)	230000.00	
Haverhill St. Note (1924)	30000.00	
		<hr/> \$776500.00

Assets

Cash, General Fund	\$31942.80	
Cash, Water Loan	6882.97	
Cash, Rogers Brook	985.20	
Cash, Main Street Sidewalk	1160.52	
Cash, Outfall Sewer	8739.53	
Cash, War Memorial Committee	444.14	
Cash, Shawsheen School	187575.95	
Cash, McCarthy Land Taking	750.00	
		<hr/> 238481.11
Uncollected Taxes	67548.40	
Uncollected Moth Work	367.35	
		<hr/> 67915.75
		<hr/>
<i>Amount carried forward</i>		\$306396.86

<i>Amount brought forward</i>		\$306396.86
Commonwealth, State Aid	386.00	
Commonwealth, Temporary Aid	845.75	
Commonwealth, Mothers' Aid	756.26	
Towns, Mothers' Aid	169.56	
Sewer Assessments	6341.03	
Water Rates due January 1, 1924	10504.60	
Sinking Funds	44184.45	
	<hr/>	63187.65
Balance against Town		406915.49
		<hr/>
		\$776500.00

GEORGE A. HIGGINS, *Treas., in*

DR.

Balance Jan. 1, 1923, General Fund	\$5424.42
Balance Jan. 1, 1923, Water Loan	6882.97
Balance Jan. 1, 1923, Special Sewer Survey	3437.66
Balance Jan. 1, 1923, Main Street Loan	1140.29
Balance Jan. 1, 1923, No. Main St. appropriation	15000.00
Balance Jan. 1, 1923, Memorial Committee	1200.00
Commonwealth, Corporation Tax	40613.10
Commonwealth, Income Tax	21926.36
Commonwealth, General School Fund	9547.36
Commonwealth, Bank Tax	2716.35
Commonwealth, Reimbursement, Land taxes	189.39
Commonwealth, Street Railway Tax	710.52
Commonwealth, School Tuition	467.76
Commonwealth, Industrial School	143.28
Commonwealth, Mothers' Aid	1532.90
Commonwealth, Temporary Aid	873.41
Commonwealth, Support of Paupers	260.00
Commonwealth, State Aid	516.00
Commonwealth, Military Aid	37.50
Commonwealth, Moth Work	66.05
Commonwealth, Hawkers' Licenses	98.00
Commonwealth, Haverhill Street	8000.00
Commonwealth, Tuberculosis Subsidy	301.43
Commonwealth, Refund, Teachers' Retirement	7.00
Essex County, Haverhill Street	4900.00
Essex County, Dog Tax	502.82
Essex County, Killing Dogs	65.00
Andover National Bank, Notes	290000.00
Collector's Department, Taxes	404505.34
Collector's Department, Interest on Taxes	3042.06
Collector's Department, Moth Work	2695.70
Collector's Department, Interest on deposits	257.16
Board of Public Works, Water Rates	37718.68
Board of Public Works, Service Pipe	19942.76
Board of Public Works, Sidewalk Assessments	626.50
Board of Public Works, Refund Water Dept.	8.25
American Woolen Co., North Main Street	15000.00

Amount carried forward

\$900356.02

account with the town of Andover

CR.

Orders paid

Town Officers	\$10397.01
Town House	3129.79
Police Department	14183.40
Fire Department	23825.51
New Fire Truck	9000.00
Brush Fires	999.44
Spring Grove Cemetery	5182.51
Almshouse Expenses	7171.94
New Almshouse	6088.43
Outside Relief	4950.95
Mothers' Aid	5324.96
Soldiers' Relief	1652.35
State Aid	386.00
Highway Department	75594.04
Main Street	15297.44
Haverhill Street	37405.26
No. Main Street	30000.00
Main Street Sidewalk	1839.48
Tree Warden	7027.14
Moth Department	7485.42
Street Lighting	9686.38
Public Dump	75.00
Hay Scales	117.60
Sewer Dept. Maintenance	2889.13
Sewer Dept. Construction	1711.49
Outfall Sewer	185307.86
Special Sewer Survey	3020.48
Sewer House Connections	50.85
Sewer Sinking Fund	1000.00
Sewer Bonds	7000.00
Water Dept. Maintenance	22120.80
Water Dept. Construction	32206.45
Water Loan Bonds	20000.00
Water Loan Interest	4862.50
Water Sinking Fund	750.00
High School Bonds	6000.00
Shawsheen Bridge Bonds	2500.00
Main Street Bonds	20000.00
School Department	111878.90

Amount carried forward

\$698118.51

GEORGE A. HIGGINS, Treas., in

DR.

<i>Amount brought forward</i>	\$900356.02
Sewer Department, Assessments	4928.19
Sewer Department, Interest on Assessments	49.33
Sewer Department, House Connections	1869.66
Town House, Rentals	886.00
Fire Department, Horses and Supplies	376.22
Almshouse	68.00
Towns, Mothers' Aid	1291.13
Outside Relief, Reimbursement	420.38
Spring Grove Cemetery, Sale and Care of Lots	2727.98
George A. Higgins, Town Clerk's Fees	248.00
Trial Justice Court, Fines	722.20
Hay Scales	60.00
C. F. Emerson, Sealer's Fees	22.69
School Department, Tuition and Supplies	944.60
Board of Health, Licenses	18.50
Old Schoolhouse, Ballardvale, Rents	300.00
Auto Dealer's License	25.00
Druggist License	1.00
Smart & Flagg, Insurance Returned	3.14
Police Department	112.00
City of Lawrence, Outfall Sewer	40311.17
Shawsheen School Loan	230000.00
Shawsheen School Loan, Premium and Interest	721.30
Outfall Sewer Loan	150000.00
Outfall Sewer Loan, Premium and Interest	3736.22
Sinking Fund, Water Bond Redemption	10000.00
Andover National Bank, Interest on Deposits	1616.39
Total	<hr/> \$1351815.12

account with the town of Andover

CR.

Amount brought forward

\$698118.51

Shawsheen School	44145.35	
Parks and Playstead	1186.71	
Rogers Brook	1514.80	
Interest	22572.70	
Board of Health	3705.91	
Miscellaneous	569.92	
Memorial Hall Library	4000.00	
Memorial Hall Library, Dog Tax	502.82	
Retirement of Veterans	300.00	
Memorial Day	550.00	
Post 99, G. A. R.	100.00	
Andover Post No. 8, American Legion	827.94	
Printing and Stationery	1945.86	
Insurance	5127.41	
Election and Registration	455.15	
Memorial Committee	755.86	
Essex Tuberculosis Hospital	2823.50	
Civil Judgment	2926.00	
County Tax	22708.20	
Commonwealth, Bank Tax	2257.42	
Commonwealth, Corporation Tax	147.17	
Commonwealth, State Tax	24000.00	
Commonwealth, Highway Tax	4353.00	
Commonwealth, War Poll Tax	7737.00	
Commonwealth, Soldiers' Exemption	2.78	
Andover National Bank, Notes	260000.00	
		<hr/>
Total Expenditures		\$1113334.01
Balance on hand January 1, 1924		
General Fund	31942.80	
Water Loan	6882.97	
Main Street Sidewalk	1160.52	
Rogers Brook	985.20	
Outfall Sewer	8739.53	
Shawsheen School	187575.95	
McCarthy Land Taking	750.00	
Memorial Committee	444.14	
		<hr/>
		238481.11
		<hr/>
		\$1351815.12

Richardson Fund — Shawsheen Village School

DR.

Balance January 1, 1923	\$1520.57	
Andover Savings Bank, interest	75.89	
	<hr/>	\$1596.46

CR.

W. A. Allen	21.00	
Deposit, Andover Savings Bank	1575.46	
	<hr/>	\$1596.46

Draper Fund — School

DR.

Balance January 1, 1923	1138.57	
Andover Savings Bank, interest	50.62	
	<hr/>	\$1189.19

CR.

Punchard Athletic Association	\$138.57	
Deposit, Andover Savings Bank	1050.62	
	<hr/>	\$1189.19

Edward Taylor Fund — Fuel

DR.

Balance January 1, 1923	316.84	
Andover Savings Bank, interest	16.00	
	<hr/>	\$332.84

CR.

Deposit, Andover Savings Bank	332.84	
	<hr/>	\$332.84

Varnum Lincoln Spelling Fund

DR.

Balance January 1, 1923	\$549.87	
Andover Savings Bank, interest	26.79	
	<hr/>	\$576.66

CR.

H. C. Sanborn, Supt. of Schools	\$20.00	
Deposit, Andover Savings Bank	556.66	
	<hr/>	\$576.66

Isaac Giddings Burial Ground Fund

DR.

Balance January 1, 1923	\$1000.00	
Andover Savings Bank, interest	50.62	
	<hr/>	\$1050.62

CR.

Jonathan E. Holt, Trustee	\$50.62	
Deposit, Andover Savings Bank	1000.00	
	<hr/>	\$1050.62

Dr. Edward C. Conroy School Fund

DR.

Balance January 1, 1923	\$250.00	
Andover Savings Bank, interest	15.91	
	<hr/>	\$265.91

CR.

Deposit, Andover Savings Bank	\$265.91	
	<hr/>	\$265.91

Holt Fund — School

DR.

January 1, 1923	\$193.48	
	<hr/>	\$193.48

CR.

Deposit, Andover Savings Bank	\$193.48	
	<hr/>	\$193.48

Cemetery Fund

PERPETUAL CARE

DR.

Balance January 1, 1923	\$30613.08	
Andover Savings Bank, interest	1565.21	
Deposit for Perpetual Care	1675.00	
	<hr/>	\$33853.29

CR.

Spring Grove Cemetery, for care of lots	\$448.75	
Private cemeteries, for care of lots	725.00	
Deposit, Andover Savings Bank	32679.54	
	<hr/>	\$33853.29

AUDITORS' CERTIFICATE

We have examined the accounts of the several town officers and find them correctly cast, with satisfactory vouchers for all payments.

The Town Treasurer has on deposit in Andover National Bank and cash on hand:

General Fund	\$31942.80
Water Loan	6882.97
Main Street Sidewalk	1160.52
Rogers Brook	985.20
Outfall Sewer	8739.53
Shawsheen School	187575.95
McCarthy Land Taking	750.00
Memorial Committee	444.14
	<hr/>
	\$238481.11

JOHN S. ROBERTSON
WALTER H. COLEMAN
HARRY SELLARS

Auditors

PUNCHARD FREE SCHOOL

REV. CHARLES W. HENRY, *President*

HARRY H. NOYES, *Clerk and Treasurer*

REV. E. VICTOR BIGELOW MYRON E. GUTTERSON

REV. NEWMAN MATTHEWS FREDERIC S. BOUTWELL

EDMOND E. HAMMOND JOHN H. CAMPION

REPORT OF TREASURER

PRINCIPAL FUND

January 1, 1923

Cash in Banks	\$6911.53	
Real Estate, Mortgages and Bonds	70088.47	
	<u> </u>	\$77000.00

December 31, 1923

Cash in Banks	11053.22	
Real Estate, Mortgages and Bonds	65946.78	
	<u> </u>	77000.00

INCOME

January 1, 1923

Cash in Bank	1214.15	
Interest and Rents	3679.46	
	<u> </u>	4893.61

EXPENDITURES

N. C. Hamblin, Principal	800.00	
Helen M. Dunn, instructor	1045.00	
Hazel Underwood, instructor	1120.00	
M. E. Stevens, instructor	630.00	
Postage and stationery	13.25	
Smart & Flagg, insurance	10.00	
Andover National Bank — box rent	5.00	
Rogers & Angus, insurance	25.00	
Harry H. Noyes, treasurer	200.00	
Expense, travel, etc.	11.45	
Legal expense	25.00	
Balance	1008.91	
	<u> </u>	4893.61

BARNARD FUND

January 1, 1923		
Cash in Bank	\$25.50	
Dividends	40.00	
	<hr/>	\$65.50
Prizes awarded		
First	20.00	
Second	12.00	
Third	8.00	
December 31, Cash in Bank	25.50	
	<hr/>	65.50

DRAPER FUND

January 1, 1923		
Cash in Bank	1424.74	
Dividends	72.10	
	<hr/>	1496.84
Scholarship	60.00	
December 31, Cash in Bank	1436.84	
	<hr/>	1496.84

GOLDSMITH FUND

January 1, 1923		
Cash in Bank	266.79	
Dividends	13.47	
	<hr/>	280.26
Prizes awarded	10.00	
December 31, 1923		
Cash in Bank	270.26	
	<hr/>	280.26

HARRY H. NOYES, *Treasurer*

TOWN WARRANT

THE COMMONWEALTH OF MASSACHUSETTS

ESSEX, ss: To either of the Constables of the Town of
Andover, GREETING:

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in elections and in town affairs to meet and assemble at the designated polling places in Precincts One, Two, Three and Four, viz: The Town House in Precinct One; the Old School House, Ballardvale, in Precinct Two; the Boys' Club House, Shawsheen Village, in Precinct Three; and the Phillips Club House, School Street, in Precinct Four, in said Andover, on MONDAY, THE THIRD DAY OF MARCH, 1924, at 6 o'clock a.m., to act on the following articles:

Article 1. — To elect a Moderator for one year, Town Clerk for one year, Treasurer for one year, Collector of Taxes for one year, one member of the Board of Selectmen for three years, one member of the Board of Assessors for three years, three members of the School Committee for three years, one member of the School Committee for two years (to fill vacancy), two members of the Board of Public Works for three years, one member of the Board of Health for three years, three Auditors of Accounts for one year, three Constables for one year, one Trustee of Memorial Hall Library for seven years, one Tree Warden for one year and all town officers required by law to be elected by ballot. Also to take action on the following question: Shall licenses be granted for the sale of certain non-intoxicating beverages in this town?

All to be voted for on one ballot. The polls will be open from 6 o'clock a.m. to 5 o'clock p.m.

After final action on the preceding Article one, the said meeting shall stand adjourned by virtue of Section 20, Chapter 39, of the

General Laws, to Monday, March 10th, at 1.30 o'clock p.m. at the Town Hall, then and there to act upon the following articles, namely:

Article 2. — To elect all other officers not required by law to be elected by ballot.

Article 3. — To determine what sums of money shall be appropriated for Almshouse Expenses, Relief out of Almshouse, Aiding Mothers with Dependent Children, Board of Health, Brush Fires, Fire Department, Hay Scales, Highway Department Insurance, Interest, Memorial Hall Library, Memorial Day, Post 99, G. A. R., Miscellaneous, Parks and Playsteads, Police, Printing, Election and Registration, Essex County Tuberculosis Hospital Maintenance, Public Dump, Retirement of Veterans, Reserve Fund, Redemption of Water, Sewer, High School, Main Street, Shawsheen Bridge and Shawsheen School Bonds, Schools, Sewer Maintenance, Sewer Sinking Funds, Soldiers' Relief, Spring Grove Cemetery, State Aid, Street Lighting, Town Officers, Town House, Tree Warden, Moth Department, Water Maintenance, Construction, Andover Post No. 8, American Legion, and other town charges and expenses.

Article 4. — To see if the Town will vote to raise and appropriate the sum of seventy-one thousand three hundred ninety-six dollars and thirteen cents (\$71,396.13) levied by the County Commissioners of Essex County under Chapter 429 of the Acts of 1923 for the construction of the Tuberculosis Hospital at Middleton and authorize the treasurer to borrow any or all of the said sum or take any action relative thereto.

Article 5. — To see if the Town will authorize the Board of Public Works to extend the water main from the Pumping Station, Lowell Street, to Etalo Belmessiere's residence and appropriate the sum of twenty thousand (\$20,000.) dollars therefor, on petition of W. I. Livingston and others.

Article 6. — To see if the Town will authorize the Board of Public Works to extend the water main from the dead end at the residence of William F. Trauschke along North Street as far as the North School at the corner of North Street and River Road and appropriate the sum of twenty thousand (\$20,000.) dollars therefor, on petition of George Lee and others.

Article 7. — To see if the Town will authorize the Board of

Public Works to extend water service on Corbett Road from the point in said road where such service now ends to the main entrance of the Sacred Heart Cemetery, and to appropriate therefor the sum of six thousand (\$6000.) dollars, on petition of Edward Topping and others.

Article 8. — To see if the Town will appropriate the sum of four thousand (\$4000.) dollars to lay a six-inch water main on North Street to the home known as the Brown Place, and then to the home of Edward Rogers on Chandler Road, on petition of George F. Parker and others.

Article 9. — To see if the Town will vote to accept as a part of its sewerage system a sewer on Poor Street from a point beginning at Lowell Street, and extending to a manhole at the junction of William Street, a distance of 1308 feet and authorize the assessment of betterments upon estates benefited by same, according to plan of John Franklin, C. E., dated December 8th, 1923, and appropriate the sum of \$5341.00 to reimburse the American Woolen Co. for the cost of constructing the same in case of said acceptance, on petition of the Board of Public Works.

Article 10. — To see if the Town will authorize the building of a sewer, beginning at the terminus of the present sewer on Poor Street and extending a short distance on Magnolia Avenue, to a point near the Shawsheen School, an entire distance of about 300 feet and appropriate the sum of \$2000.00 for its construction and accept the same as a part of the sewerage system, on petition of the Board of Public Works.

Article 11. — To see if the Town will authorize the Board of Selectmen to sell to the American Woolen Company for fifteen hundred (\$1500.00) dollars, the land owned by the town, which was formerly used for its filtration plant, and authorize the Selectmen to convey the said land by a proper deed or deeds in behalf of the town, the Selectmen to retain and reserve for the Town such rights of way as may be necessary or advisable for the Town to hold, on petition of the Board of Public Works.

Article 12. — To see if the Town will accept the provisions of Sections 42, 43 and 44 of Chapter 48 of the General Laws relating to the establishment of a fire department under the control of an officer to be known as the Chief of the Fire Department, on petition of the Selectmen.

Article 13. — To see if the Town will appropriate the sum of sixty-five hundred (\$6500.00) dollars to purchase a lot of land containing about seventeen (17) acres, lying between Spring Grove Cemetery and Porter Road, on petition of the Trustees of Spring Grove Cemetery.

Article 14. — To see if the Town will vote to construct a granolithic sidewalk on the North and South side and in front of the Town Hall, also a reinforced granolithic driveway in front of said building and appropriate the sum of twenty-five hundred (\$2500.) dollars therefor, on petition of the Board of Selectmen.

Article 15. — To hear and act on the report of the War Memorial Committee.

Article 16. — To see if the Town will appropriate the sum of \$2000. for the collection and disposal of garbage, and if the Town believes that the collection and disposal should be a self sustaining proposition, to see if the Town will authorize the Board of Selectmen to put such a plan in operation under such regulations, based upon the actual cost of the service and no more, as may be justified in order to make the service effective, on petition of Madeleine B. Francke and others.

Article 17. — To see if the Town will accept Section 12 of Chapter 40 of the General Laws which reads as follows:

“A Town which accepts this section, or has accepted corresponding provisions of earlier laws, by a two-thirds vote at an annual meeting, may purchase or lease land, and erect, alter, enlarge, repair and improve buildings for public baths and wash houses, either with or without open drying grounds, and may make open bathing places, provide them with the requisite furniture, fittings and conveniences and provide instruction in swimming. Such Towns may establish rates for the use of such baths and wash houses, and appoint officers therefor and may make by-laws for the government of such officers, and authorize them to make regulations for the management thereof, and for the use thereof by non-residents of said Town,” and also appropriate the sum of two thousand (\$2000.) dollars if said section is accepted, for the purpose of establishing and maintaining swimming baths at Pomp’s Pond, on petition of John F. O’Connell and others.

Article 18. — To see if the Town will vote to appropriate the

sum of five thousand (\$5000.) dollars to purchase a Triple Combination Pump, Chemical Tank, Hose Body, fully equipped, mounted on Reo Speed Wagon Chassis, on petition of the residents of Ballardvale, same to be placed in the Ballardvale Fire Engine House.

Article 19. — To see if the Town will raise and appropriate forty-five hundred (\$4500.) dollars to erect bleachers and to provide playground accessories for the Playstead, to be expended as the Town may direct, on petition of Andover Post, No. 8, American Legion, and others.

Article 20. — To see if the Town will raise and appropriate a sum not exceeding three thousand (\$3000.) dollars for the installing of a new twenty (20) ton scale, on petition of Harry H. Remick and others.

Article 21. — To see if the Town will accept as a town way, as laid out by the Selectmen, and shown on plan filed with the Town Clerk, a street located on the northerly side of Chestnut Street, about one hundred and twenty-two feet easterly of land of Burt and running northerly to Summer Street, on petition of Llewellyn D. Pomeroy and others.

Article 22. — To see if the Town will vote to change the name of that part of Poor Street, running from Main Street southwesterly to Corbett Road, to Oxford Street, on petition of George H. Winslow and others.

Article 23. — To see if the Town will vote to change the name of that part of Poor Street extending from Main and Lowell Streets northerly to Corbett Road, to Warwick Street, also to change the name of Magnolia Avenue to Warwick Street, combining these two streets under the same name, on petition of George H. Winslow and others.

Article 24. — To see if the Town will place a Fire Alarm Box at the corner of Ballardvale Road and Woburn Street and appropriate a sum of money therefor, on petition of John Colbath and others.

Article 25. — To see if the Town will vote to appropriate the sum of \$300.00 as its apportionment toward the erection of a sixty-foot steel forest fire observation tower on the summit of Prospect Hill by the Division of Forestry of Massachusetts, as authorized by Section 5, Chapter 40 of the General Laws.

Article 26. — To see if the Town will vote to release any rights acquired by it by virtue of an oral agreement made between the Board of Public Works and Maurice J. Curran for the laying and maintenance of sewer pipes across the Roger Sweeney Field, and to authorize the Board of Public Works through its chairman to execute such release in behalf of the Town, on petition of the Board of Public Works.

Article 27. — To see if the Town will vote to discontinue that part of Whittier Street between the Park and School property, a distance of 583 feet from Bartlet Street to the junction of Whittier Court and Whittier Street, so that this may become a part of the Park System, on petition of the Board of Public Works.

Article 28. — To determine the method of collecting the taxes for the ensuing year.

Article 29. — To authorize the Town Treasurer to hire money for the use of the town in anticipation of the revenue of the current financial year, with the approval of the Selectmen.

Article 30. — To determine what disposition shall be made of unexpended appropriations.

Article 31. — To act upon the report of the Town Officers.

Article 32. — To transact any other business that may legally come before the meeting.

And you are directed to serve this warrant by posting attested copies and publication thereof, seven days at least before the time of said meeting as directed by the By-Laws of the town.

Hereof fail not and make return of this warrant with your doings thereon, at the time and place of said meeting.

Given under our hands this nineteenth day of February, A.D. 1924.

FRANK H. HARDY
CHARLES BOWMAN
ANDREW McTERNEN

Selectmen of Andover

RECOMMENDATIONS OF FINANCE COMMITTEE

The Finance Committee respectfully presents herewith its report and recommendation for the current year.

The town has had an abnormal growth for the past few years and there appears reason to believe that further town development must be planned for. With this growth has come large increases in tax returns and a necessary expansion in our various public departments which means greater expenditures and an increase in the funded debt. The situation, however, has been a most fortunate one for us for the reason that in the Shawsheen Village section we have a large tax return compared with the expenditure the town has been called upon to make.

It has been the custom of the Finance Committee to indicate to the tax payers an approximate tax rate based on recommended appropriations, and estimated valuation and income, and this custom is again followed in this report. However, we cannot too strongly emphasize the fact that tax rates are made by the voters in the town meeting; whatever the amounts voted in the meeting these are the amounts that must be raised by taxation, and the matter is entirely in the hands of the citizens. Because this is true it is vitally necessary that all projects involving expenditures and brought before the town in the form of articles in the warrant, should be carefully investigated and the results of such investigations, together with recommendations, should be given the voters by the proper departments. Only by following some such procedure can we have just and intelligent action. A great change has come in our community since the days when the great majority of the citizens went into the town meeting fully informed in regard to all the matters to be acted upon.

Included in this report is a tabulation showing the departmental appropriations voted last year, the amounts actually expended, the amounts recommended for the current year, and

showing also the increases and decreases. Attention is invited to the items "Interest" and "Redemption of bonds," inasmuch as these items represent an increase of \$31164.80 over the amounts expended last year, and these two items account for over 37% of the total increase in the department recommendations.

Almshouse	\$7000.00
Relief out	6000.00
Aiding Mothers with Dependent children	7000.00
Board of Health	4000.00

This increase of \$400 over last year's appropriation is requested because of an overdraft and also to complete the Schick test work.

Brush Fires	1000.00
Elections	2200.00

Four elections will be held during 1924, viz: Town Election, Presidential Primaries, State Primaries, November election. It is estimated that the expenses for registration, election, printing, etc., will average about \$500 for each election.

Essex County Hospital	2883.00
This is Andover's share of the cost of maintaining the Tuberculosis Hospital for Essex County.	

Fire Department	26600.00
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The amount recommended is \$2774.49 larger than the amount expended last year and the increase is for the purpose of adding two permanent men, increasing the pay of the firemen, — excepting the new men — to \$35 a week and employing a permanent chief at a salary of \$42.00 per week. It is imperative that our fire fighting force shall be strengthened and as the day of call men seems past in our town the employment of permanent men is the only way to secure an adequate force. The increase in wages is the same as recommended

Amount carried forward

\$56683.00

Amount brought forward

\$56683.00

for the police. In the matter of employing a permanent chief the Finance Committee again affirms its recommendation of two years ago.

G. A. R. 100.00

Hay Scales 125.00

Highways 80000.00

Maintenance \$40000.00

New Construction 40000.00

This is an increase of \$5000 over the appropriation of last year and the increase applies to new construction. It would appear that the sum of \$40000.00 is the least we can appropriate in order to maintain our streets and it would be foolish economy to neglect the streets already built. For new construction there is an ever-increasing demand. The plans of the Board of Public Works for new work on Lowell Street, Haverhill Street, Elm Street, and Stevens Street, will require not less than \$40000, the sum recommended.

Interest 41600.00

Insurance 6500.00

An increase of \$500 in the insurance item is required to cover the new school building in Shawsheen Village.

Library 4500.00

This is an increase of \$500 made necessary to cover repairs on the Library building.

Memorial Day 550.00

Miscellaneous 600.00

Park 1500.00

A small increase is recommended in this department to pay for improvement of the new property now included in the Playstead.

Amount carried forward

\$192158.00

<i>Amount brought forward</i>	\$192158.00
Police	18250.00
A substantial increase is recommended for this department for the employment of one more officer in Shawsheen Village, and an increase in wages for the police officers from \$30.00 to \$34.62 per week, and an increase in the salary of the chief-of-police from \$1872 to \$2000 per year.	
Printing	1500.00
Public Dump	75.00
Reserve Fund	3000.00
This is a fund recommended by the State Auditor for an emergency fund.	
Retirement of Veterans	300.00
Retirement of Bonds	62500.00
The items are as follows:	
Water Bonds	\$10000.00
Sewer Bonds	12000.00
High School Bonds	6000.00
Shawsheen Bridge	2500.00
Main Street	20000.00
Shawsheen School	12000.00
Schools	126515.00
The school budget is increased \$14636.10 over last year's expenditure, due to the maintenance of the new school in Shawsheen Village and also because of a proposed increase in the salaries of the teachers.	
Sewer Department	6000.00
Soldiers' Relief	2000.00
Spring Grove Cemetery	5200.00
State Aid	500.00
Street Lighting	11000.00
The Committee on Street Lighting recommend extension in our street lighting system	
<i>Amount carried forward</i>	\$428998.00

Amount brought forward \$428998.00

which will cost \$1313.62 more than was expended during 1923 and the recommendation is adopted by the Finance Committee.

Town House 3000.00

Town officers 11960.00

The details which are included in this item are as follows:

Selectmen, Assessors, and Overseers of the poor 2500.00

Tax Collector 1800.00

Stenographer 1560.00

Auditors 300.00

Building Inspector 500.00

Sealer of Weights and Measures 250.00

Town Counsel (Based on 1923 payment) 650.00

Bonds of Tax Collector and Treasurer 200.00

Town Clerk \$1000.00

Town Treasurer 1800.00

Clerk for Board of Selectmen 400.00

Sundries, including 1000.00

Stationery

Auto Hire

Railroad Fares

Register of Deeds, Records

Certification of Notes

Extra Clerical Work

Moderator

Total increase in this department \$660.00, for Town Treasurer, Clerk and Stenographer. Balance of increase in appropriation has been deducted from other departments through change in classification.

Amount carried forward \$443958.00

<i>Amount brought forward</i>	\$443958.00
Tree Warden	10000.00
Moth Work	6000.00
Tree Work	4000.00
This is \$4512.56 less than we spent in this department last year and is in the judgment of the Finance Committee a sum entirely adequate for the town to expend from year to year for protection against moth ravages and for the care of trees and roadside trimming.	
Water Department Maintenance	33500.00
Water Department Service Pipe	15000.00
This item is for cost of water installation and is returned to the town's treasury.	
American Legion	1000.00
	<hr/>
	\$503458.00

The Finance Committee recommends the following action regarding the articles in the warrant:—

Article 4. To see if the Town will vote to raise and appropriate the sum of seventy-one thousand three hundred ninety-six dollars and thirteen cents (\$71,396.13) levied by the County Commissioners of Essex County under Chapter 429 of the Acts of 1923 for the construction of the Tuberculosis Hospital at Middleton and authorize the treasurer to borrow any or all of the said sum or take any action relative thereto. (It is recommended that the sum of \$1396.13 be paid from the 1924 tax levy and the balance be raised by a bond issue, said bonds to be redeemed over a ten-year period.)

Article 5. To see if the Town will authorize the Board of Public Works to extend the water main from the Pumping Station, Lowell Street, to Etalo Belmessiere's residence and appropriate the sum of twenty thousand (\$20,000.) dollars therefor, on petition of W. I. Livingston and others.

(This would require an extension of about 7150 feet. The income from present possible takers would be about \$104.00 per year or a fraction of one percent return on the cost of the extension.)

Article 6. To see if the Town will authorize the Board of Public Works to extend the water main from the dead end at the residence of William F. Trauschke along North Street as far as the North School at the corner of North Street and River Road and appropriate the sum of twenty thousand (\$20,000.) dollars therefor, on petition of George Lee and others.

(This is an extension of 7100 feet. For approximately 3000 feet there are no houses. The annual income to the town from the houses now on this road would be about \$138.00 or less than one per cent of the cost.)

Article 7. To see if the Town will authorize the Board of Public Works to extend water service on Corbett Road from the point in said road where such service now ends to the main entrance of the Sacred Heart Cemetery, and to appropriate therefor the sum of six thousand (\$6000.) dollars, on petition of Edward Topping and others.

(This extension would be about 1700 feet in length. There would be much hard digging and considerable ledge work and the present available takers of water would return an annual income of perhaps \$50.00 to the town. Furthermore, this street should be properly laid out before a water main is considered.)

Article 8. To see if the Town will appropriate the sum of four thousand (\$4000.) dollars to lay a six-inch water main on North Street to the home known as the Brown Place, and then to the home of Edward Rogers on Chandler Road, on petition of George F. Parker and others.

(This would require about 1700 feet of new pipe. The annual income from existing houses would be about \$40.00 per year or one per cent on the cost of the extension.)

These four articles relating to water main extensions call for a total outlay of fifty thousand (\$50000.00) dollars, and the annual return from the investment would not exceed today three hundred and fifty (\$350.00) dollars or a fraction of one per cent. There is in addition no prospect of enough growth for some years to increase this return very much.

These proposed extensions and some others of similar nature which have been asked in recent years raise the question of what the policy of the Town should be in regard

to extension of the water system into the sections not now supplied. The Board of Public Works has proposed a general survey of the whole situation to determine where public water is most needed, the possibility of serving such areas, and the development of a comprehensive plan through which the system may be extended systematically as needs require and finances permit.

It is the general practice of the best public water departments to make extension of mains only in those cases where the return for water supplies will at once or in the near future pay at least four per cent on the cost of the extensions. This was once the practice in Andover.

Because of the conditions above described the Finance Committee advises against the appropriation asked in all four articles. Further the Committee recommends that pending the survey to be made by the Board of Public Works the Town make water main extensions only in those cases where a return of not less than four per cent will be received from the water takers or this amount be guaranteed to the Town by reliable parties until the receipts bring this return.)

Article 9. To see if the Town will vote to accept as a part of its sewerage system a sewer on Poor Street from a point beginning at Lowell Street and extending to a manhole at the junction of William Street, a distance of 1308 feet and authorize the assessment of betterments upon estates benefited by same, according to plan of John Franklin, C. E., dated December 8th, 1923, and appropriate the sum of \$5341.00 to reimburse the American Woolen Co. for the cost of constructing the same in case of said acceptance, on petition of the Board of Public Works.
(Approved.)

Article 10. To see if the Town will authorize the building of a sewer, beginning at the terminus of the present sewer on Poor Street and extending a short distance on Magnolia Avenue, to a point near the Shawsheen School, an entire distance of about 300 feet and appropriate the sum of \$2000.00 for its construction and accept the same as a part

of the sewerage system, on petition of the Board of Public Works.

(Approved.)

Article 11. To see if the Town will authorize the Board of Selectmen to sell to the American Woolen Company for fifteen hundred (\$1500.00) dollars, the land owned by the town, which was formerly used for its filtration plant, and authorize the Selectmen to convey the said land by a proper deed or deeds in behalf of the Town, the Selectmen to retain and reserve for the Town such rights of way as may be necessary or advisable for the Town to hold, on petition of the Board of Public Works.

(Approved—This land is no longer required by the Town and in the opinion of the Finance Committee should be made available for the further development of the plans of the American Woolen Company. The experience of the Town, particularly in the case of the “Almshouse land,” indicates very clearly that the further extension of the Shawsheen Village section will be of large benefit to the community. The sum of fifteen hundred (\$1500.00) dollars is, as far as can be ascertained, the price the town paid for this land.

Article 12. To see if the Town will accept the provisions of Sections 42, 43 and 44 of Chapter 48 of the General Laws relating to the establishment of a fire department under the control of an officer to be known as the Chief of the Fire Department, on petition of the Selectmen.

(Approved—The Finance Committee reaffirms its previous recommendation in regard to the employment of a permanent fire chief.)

Article 13. To see if the Town will appropriate the sum of sixty-five hundred (\$6500.00) dollars to purchase a lot of land containing about seventeen (17) acres, lying between Spring Grove Cemetery and Porter Road, on petition of the Trustees of Spring Grove Cemetery.

(Approved in the sum of \$2000.00—After a discussion of this matter with the Cemetery Trustees the Finance Committee recommends the purchase of the parcel of land containing five acres of land immediately adjoining the present cemetery holdings and appropriating \$2000.00 therefor.)

Article 14. To see if the Town will vote to construct a granolithic sidewalk on the North and South side and in front of the Town Hall, also a reinforced granolithic driveway in front of said building and appropriate the sum of twenty-five hundred (\$2500.) dollars therefor, on petition of the Board of Selectmen.

(Not approved—Careful consideration of this proposal suggests the need of further examination of the plan of improvement and the Finance Committee therefore recommends, with the approval of the selectmen, that the matter be postponed.)

Article 15. To hear and act on the report of the War Memorial Committee.

(No action required of the Finance Committee.)

Article 16. To see if the Town will appropriate the sum of \$2000. for the collection and disposal of garbage, and if the Town believes that the collection and disposal should be a self sustaining proposition, to see if the Town will authorize the Board of Selectmen to put such a plan in operation under such regulations, based upon the actual cost of the service and no more, as may be justified in order to make the service effective, on petition of Madeleine B. Francke and others. (A satisfactory plan for handling this work has not been developed. The Finance Committee recommends that whatever method is adopted by the Town the entire cost of this service shall be paid by those who receive the service as it would be available only for the thickly settled parts of the Town. Some funds may be necessary to put any plan into operation and therefore an appropriation of \$2000 is approved to be used under these conditions.)

Article 17. To see if the Town will accept Section 12 of Chapter 40 of the General Laws which reads as follows:—

“A Town which accepts this section, or has accepted corresponding provisions of earlier laws, by a two-thirds vote at an annual meeting, may purchase or lease land, and erect, alter, enlarge, repair and improve buildings for public baths and wash houses, either with or without open drying grounds, and may make open bathing places, provide them with the requisite furniture, fittings and conveniences and

provide instruction in swimming. Such Towns may establish rates for the use of such baths and wash houses, and appoint officers therefor and may make by-laws for the government of such officers, and authorize them to make regulations for the management thereof and for the use thereof by non-residents of said Town," and also appropriate the sum of two thousand (\$2000.) dollars if said section is accepted, for the purpose of establishing and maintaining swimming baths at Pomp's Pond, on petition of John F. O'Connell and others.

(Not approved—The Finance Committee agrees that the work started last year by interested citizens for providing bathing facilities at Pomp's Pond was a desirable thing to do. The Committee feels, however, that it would be well to test this out for another year under private auspices and determine more exactly the definite needs before asking the Town to take over the equipment and supervision. If after another year's trial, it seems wise to have the Town take over this work, definite plans and estimates of the facilities to be provided should be presented to the Selectmen so that full information can be presented to the Town before the next Town meeting.)

Article 18. To see if the Town will vote to appropriate the sum of five thousand (\$5000.) dollars to purchase a Triple Combination Pump, Chemical Tank, Hose Body, fully equipped, mounted on Reo Speed Wagon Chassis, on petition of the residents of Ballardvale, same to be placed in the Ballardvale Fire Engine House.

(Not approved—The residents of Ballardvale request that a piece of motor driven apparatus be established in that section of the Town principally for use in fighting brush fires, and it is recommended that the Selectmen and the Board of Engineers investigate the matter and report with recommendation at the next annual town meeting.)

Article 19. To see if the Town will raise and appropriate forty-five hundred (\$4500.) dollars to erect bleachers and to provide playground accessories for the Playstead, to be expended as the Town may direct, on petition of Andover Post, No. 8, American Legion, and others.

(Not approved—The question of the use of a public playstead is an involved one, particularly in Andover, where it is the only available field for high school contests which must be self sustaining. In the opinion of the Finance Committee the entire proposition of the development of the Playstead for larger recreation purposes, the erection of stands for spectators and the possibilities of giving the use of the field and its equipment to the High School under conditions which will make possible some revenue for the support of athletics, warrants a careful and comprehensive study by the Board of Public Works, and it is so recommended.)

Article 20. To see if the Town will raise and appropriate a sum not exceeding three thousand (\$3000.) dollars for the installing of a new twenty (20) ton scale, on petition of Harry H. Remick and others.

(Not approved.)

Article 21. To see if the Town will accept as a town way, as laid out by the Selectmen, and shown on plan filed with the Town Clerk, a street located on the northerly side of Chestnut Street about one hundred and twenty-two feet easterly of land of Burtt and running northerly to Summer Street, on petition of Llewellyn D. Pomeroy and others.

(Approved.)

Articles 22 and 23 require no action on the part of the Finance Committee.

Article 24. To see if the Town will place a Fire Alarm Box at the corner of Ballardvale Road and Woburn Street and appropriate a sum of money therefor, on petition of John Colbath and others.

(Referred to Fire Engineers.)

Article 25. To see if the Town will vote to appropriate the sum of \$300.00 as its apportionment toward the erection of a sixty-foot steel forest fire observation tower on the summit of Prospect Hill by the Division of Forestry of Massachusetts as authorized by Section 5, Chapter 40 of the General Laws. (Approved.)

The subsequent articles in the warrant require no action on the part of the Finance Committee.

SUMMARY

Department expenditure recommended	\$503458.00
Special expenditures recommended	13037.13
State and County taxes (estimated)	50000.00
Haverhill Street note	30000.00
	<hr/>
	\$596495.13
Estimated receipts	150000.00
	<hr/>
Net	\$446495.13

VALUATION

1923	1924 (est.)
\$14824470.00	\$16250000.00

Computation of tax rate for 1924 using these figures

\$446495.13	
<hr/>	= \$27.45
\$16250000.00	

Tax rate 1923, \$26.70.

Respectfully submitted,

HENRY A. BODWELL, <i>Chairman</i>	
GEORGE ABBOT	E. V. FRENCH
GEORGE L. AVERILL	C. W. HOLLAND
GEORGE H. WINSLOW	JOHN C. ANGUS, <i>Secretary</i>
<i>Finance Committee</i>	

DEPARTMENT APPROPRIATION AND EXPENDITURE FOR 1923
AND RECOMMENDATION FOR 1924

<i>Department</i>	<i>Appropriated 1923</i>	<i>Expended 1923</i>	<i>Recommended 1924</i>	<i>Increase</i>	<i>Decrease</i>
Almshouse	6600	7171.99	7000		171.99
Relief Out	5000	4950.95	6000	1049.05	
Aiding Mothers	2500	5324.96	7000	1675.04	
Board of Health	3600	3705.91	4000	294.09	
Brush Fires	1000	999.44	1000	.56	
Elections	600	455.15	2200	1744.85	
Essex Co. Hosp'l	2823	2823.50	2883	59.50	
Fire Department	23930	23825.51	26600	2774.49	
G. A. R.	100	100.00	100		
Hay Scales	125	117.60	125	7.40	
Highways	75000	75594.04	80000	4405.96	
Interest	20500	27435.20	41600	14164.80	
Insurance	6000	5127.41	6500	1372.59	
Library	4000	4000.00	4500	500.00	
Memorial Day	550	550.00	550		
Miscellaneous	1200	569.92	600	30.08	
Parks	1200	1186.71	1500	313.29	
Police	14500	14183.40	18250	4066.60	
Printing	2000	1945.86	1500		445.86
Public Dump	75	75.00	75		
Reserve Fund			3000	3000	
Retirement of Veterans	300	300.00	300		
Retirement of Bonds	35500	45500.00	62500	17000.00	
Schools	111883	111878.90	126515	14636.10	
Sewer Dept.	4000	4600.62	6000	1399.38	
Soldiers' Relief	1500	1652.35	2000	347.65	
Spring Grove	5200	5182.51	5200	17.49	
State Aid	600	386.00	500	114.00	
Street Lighting	10000	9686.38	11000	1313.62	
Town House	3000	3129.79	3000		129.79
Town Officers	10400	10397.01	11960	1562.99	
Tree Warden	15000	14512.56	10000		4512.56
Water Dept. Maint.	37000	22120.80	33500	11379.20	
Service Pipe		19942.76	15000		4942.76
American Legion	1000	827.94	1000	172.06	
Totals	\$406686	\$430260.17	\$503458	\$83400.79	\$10202.96

Recommended for 1924
Total Expenditures, 1923

\$503458.00
430260.17

Increase

\$73197.83

TRUSTEES OF MEMORIAL HALL LIBRARY

E. KENDALL JENKINS	ALFRED E. STEARNS
FREDERIC S. BOUTWELL	BURTON S. FLAGG
NATHAN C. HAMBLIN	FREDERICK A. WILSON
PHILIP F. RIPLEY	

President

E. KENDALL JENKINS

Secretary and Treasurer

FREDERIC S. BOUTWELL

Librarian

EDNA A. BROWN

Assistants

JULIA E. TWICHELL

EDITH DONALD

In Charge of Ballardvale Branch

MARTHA D. BYINGTON

Janitor

ARCHIBALD MACLAREN

MEMORIAL HALL LIBRARY

THE FIFTY-FIRST REPORT OF THE TRUSTEES

The trustees submit the following report of the library for 1923.

For particulars of the work and condition of the library we refer the citizens to the accompanying report of the librarian with its interesting suggestions.

The output of books has varied little from that of the previous year. It is worthy of note that more than 3000 cards are now in use and that the number of men taking books from the library is increasing.

New residents in Shawsheen Village are availing themselves of the advantages of the library and their interest in its service is heartily welcomed.

The celebration of the fiftieth anniversary of the dedication of the building last May, drew out a large audience at the public exercises in the town hall and stimulated interest in the past history and present work of the library.

A limited number of copies of the printed report of the celebration containing the addresses of Principal A. E. Stearns and of Dr. J. Edgar Park can be had on application to the librarian.

Since the present year opened the library has received from General William F. Bartlett Post 99 of the G. A. R., 142 volumes, bound in calf, containing the "Official Records of the Union and Confederate Armies of the Rebellion", which will be of much value for reference.

With more than 26000 books in the library and fully 700 added each year there is increasing need of more shelf room. Each year increases the use of the books by our schools. It is becoming difficult to accommodate with books and with room for study, the large number of pupils who now use the library on certain days.

The town must soon plan to provide larger quarters for the library if it is to meet the present demands made upon it and accomplish the purpose for which it was founded.

Respectfully submitted,

E. KENDALL JENKINS, *Chairman*
FREDERIC S. BOUTWELL
BURTON S. FLAGG
NATHAN C. HAMBLIN
PHILIP F. RIPLEY
ALFRED E. STEARNS
FREDERICK A. WILSON

TRUSTEES OF MEMORIAL HALL LIBRARY

In account with the Town of Andover, Mass.

RECEIPTS

Balance from last year	\$1732.76
Town Appropriation	4000.00
Dog Tax	502.82
Income from Investments	3465.72
Fines	280.81
Bequest	100.00
Cash paid for lost books	18.40
Gift for books	5.00
Sale of paper	2.00
Total	<hr/> \$10107.51

EXPENDITURES

Salaries	\$4810.15
Lighting and Heating	753.91
Periodicals	233.26
Bookbinding	286.45
Books	967.55
Insurance	322.53
Office Expenses	109.56
Safety Deposit Box	12.50
Sundry Items	263.02
Cash on hand	2348.58
Total	<hr/> \$10107.51

Classification of Income and Expenditures for the Year 1923

INCOME

	<i>Maint.</i>	<i>Books</i>	<i>Cornell</i>	<i>Total</i>
Income from Investments	\$2134.66	\$975.56	\$355.50	\$3465.72
Appropriation	4000.00			4000.00
Dog Tax	502.82			502.82
Fines	280.81			280.81
Cash paid for lost books		18.40		18.40
Gift for books		5.00		5.00
Sale of paper	2.00			2.00
Bequest		100.00		100.00
Total	\$6920.29	\$1098.96	\$355.50	\$8374.75

EXPENDITURES

Salaries	\$4697.83		\$112.32	\$4810.15
Lighting and Heating	564.82		189.09	753.91
Periodicals	233.26			233.26
Bookbinding	286.45			286.45
Books		967.55		967.55
Insurance	322.53			322.53
Office Expenses	109.56			109.56
Safe Deposit Box	12.50			12.50
Sundry Items	263.02			263.02
Total	\$6489.97	\$967.55	\$301.41	\$7758.93
Unexpended balances	430.32	131.41	54.09	615.82

Condition of Funds and Unexpended Income, Jan. 1924

	<i>Funds</i>	<i>Income</i>
Maintenance Fund	\$46600.00	*\$369.69
Book Funds	17400.00	1045.96
Cornell Fund (Permanent)	5000.00	387.37
Cornell Fund (Purchase)	4491.32	930.35
Special Funds and cash		354.59
Total	\$73491.32	\$2718.27
Deficit in Maintenance Income		*369.69
Balance of funds on hand		\$2348.58

INVESTMENTS

Bangor & Aroostook R.R., 4s	\$11000.00
Boston Elevated Ry. Co., 4s	10000.00
Boston Elevated Ry. Co., 4½s	1000.00
Chicago Railways Co., 5s	9962.50
Montreal Tramways Co., 5s	9962.50
Southern Cal. Edison Co., 5s and 5½s	7939.85
Boston & Maine R.R., 4s	2000.00
Pacific Tel. & Tel. Co., 5s	1000.00
New Eng. Tel. & Tel. Co., 5s	989.00
Louisville Gas & Electric Co., 5s	915.00
The Dayton Power & Light Co., 5s	940.00
Utah Power & Light Co., 6s	1030.00
Am. Tel. & Tel. Stock, 4 shares	571.50
Savings Banks	15891.32
Principal cash	289.65
	<hr/>
Total Funds	\$73491.32

FREDERIC S. BOUTWELL

Treasurer

January 31, 1924

This certifies that we have examined and found correct the above statements as of January 26, 1924, whereby all securities held against the several funds have been examined and the income accruing from same accounted for. All disbursements are supported by receipts in proper form and the cash has been verified and found correct.

BURTON S. FLAGG

PHILIP F. RIPLEY

Finance Committee

REPORT OF THE LIBRARIAN

To the Trustees of the Memorial Hall Library:

GENTLEMEN:

I herewith submit the report of the library for the twelve months ending December 31, 1923.

The number of books issued for home use during the year was 46,189, of which 6491 were borrowed through the branch at Ballardvale. This total is approximately the same as for 1922, but it is interesting to note that at the Memorial Hall 73% of all books issued were taken by grown people, while 27% were borrowed by children. The books issued to adults comprised 33% non-fiction; those to children 44%. The year shows also a large registration of new borrowers, with men in good proportion.

The usual routine of the library has gone on, with a gratifying amount of reference work done with the schools, the different local clubs and societies. Books have been lent to the outlying schools, sent to the four distant districts, and issued on vacation cards. The usual lectures on the use of the library were given to the sophomores in the Punchard High School.

The library's friends have been generous in remembering it with gifts. Five extremely valuable books on the history of art were given us by one gentleman, all books which we could not have bought from our own funds. Other thoughtful people have turned over for our use copies of recent novels which they had read and did not care to keep permanently. Still others have brought us works on more serious subjects, essays, biography or travel. All these gifts add just that much to the amount we can do with our regular book funds.

The outstanding event of the year was the observance, on Sunday evening, May 27th, of the fiftieth anniversary of the dedication of the Memorial Hall, and the opening of the library. Before a large assembly in the Town Hall, a summary of the

library's half-century of usefulness and progress was given by Dr. Alfred E. Stearns, and Rev. J. Edgar Park held the absorbed attention of his audience as he spoke on books and the value of reading, under the title of "The Biography of the Unknown." At this meeting were seven persons who had been present at the dedication of the building.

The branch at Ballardvale also celebrated, early in May, its tenth anniversary. The branch library kept open house for the afternoon and evening, with callers numbering several hundred. Mr. Nathan C. Hamblin spoke briefly for the Trustees. The usefulness of this branch to Ballardvale, and the appreciation in which it is held, show plainly in the fact that in the ten years of its life, it has circulated 67,739 books.

The observance of our fiftieth anniversary and the question of the form which the war memorial shall take, has recently occasioned some public discussion concerning the Memorial Hall considered as a building. It should be remembered that it was a library which was created as a memorial to the Civil War heroes, and that the building was only the shell. Whatever may be one's private opinion of the architectural value of the Memorial Hall, those who criticise that tribute to the soldiers of 1861, cannot fail to realize that the library itself — the soul of that building — is very far from being either obsolete, dead, or unappreciated. For a half-century it has functioned as a powerful, though quiet force in the life of the community, spreading its influence through hundreds of homes and thousands of lives. Its use increased from an initial circulation of 11,000 books a year to over 51,000.

This past November, in connection with Miss Mary Byers Smith of the Hampshire Bookshop, we arranged an intensive observance of Good Book Week for children. A committee of about forty representative people was asked to meet for a conference at the Townsman office, and this meeting resulted in arousing the interest of town in all its different sections. The school children made posters and wrote compositions on books and reading, and not a few came to the library and took cards.

A special program was arranged for one day at the Colonial Theatre, the manager kindly permitting the committee appointed to choose the films. The two selected were "The Prince and the

Pauper", and "Columbus," the first of the series of historical films being staged by the Yale University Press. There was a continuous performance before a crowded house, containing many people who do not often attend the movies.

We were fortunate enough to secure Mrs. Mary E. S. Root, formerly children's librarian at the Providence Public Library, for two lectures on reading for children. One was given under the auspices of the Shawsheen Women's Club, and the other under that of the Memorial Hall Library, at a meeting held at Abbot Academy. Miss Alice E. Blanchard, of the Hampshire Bookshop, was the other speaker. Mrs. Root also spoke at the Haverhill Public Library and at Bradford Academy.

From a suggestion made at the first committee meeting grew a loan exhibition of old-fashioned books for children, held at the library for two weeks during November. Over 250 books were brought for this purpose, from thirty different homes, and the result interested hundreds of visitors. One surprising outcome was that the exhibition, which it was supposed would be of interest chiefly to the grown people, captivated the children. They read with great enjoyment through the glass cases, the queer pages of old-time moral tales, and were genuinely disappointed that they could not borrow the books.

Ballardvale also took part in the observance of Good Book Week. Miss Caroline Underhill, of the Utica Public Library, spoke at a well-attended meeting arranged by the Mothers' Club in the Bradlee School.

Last year we considered seriously the opening of a branch at Shawsheen. It seemed an advisable thing to do, and, on receipt of a petition from the Shawsheen Women's Club, the Trustees made an unsuccessful effort to find a suitable room. None was available, so the project was postponed. The large and rapid growth of that part of town is now putting a different aspect on the question. With a population increasing by leaps and bounds, it would be impossible to give satisfactory service by means of a small branch library. After careful observation of the situation, and after talking with people living in Shawsheen, your librarian has come to the conclusion that the service wanted by that section of town can best be given by increasing and enlarging the resources and ability of the main library. Numerous borrowers

have registered from Shawsheen, who express themselves as perfectly content to use the central library, and it is evident, from the books they draw, that the necessarily limited collection in a branch would never satisfy their wants. The distance from Andover Square to Shawsheen is no farther than to Andover Hill, and there has never been a suggestion that a branch should there be established. In these days of automobiles a mile is hardly a barrier to any one who wants a book. There is also another factor in the situation in the new building which the South Lawrence Library is to have in a section neighboring to Shawsheen. It will doubtless be desirable, when the Shawsheen school building is completed, to arrange with the teachers about having special loans of books for the use of the younger children. This can be done, if we can enlarge our collection of children's books, limited now both by lack of space and lack of funds.

This question of sufficient books for the children comes up when we consider only the centre of town. The work with the schools is always heavy, but during the term just past, we were unable to meet the demands made upon us. When a class of twenty children arrives at the library, each hopefully intent upon a book about the Philippines, we have only about five suited to their needs. The rest must content themselves with the encyclopedia, and it is strange that they ever return, after having such a cold stone offered them. The very next day the affair is staged again, with Italy or Africa or lumbering as the subject. Different teachers wish to reserve books for their classes, and it is with the utmost difficulty that we can squeeze out any space whatever for this purpose.

Teachers and children alike have a right to expect more than the library is now able to give them. We have teachers coming to Andover, who are accustomed to well-equipped libraries, and much as we wish to give them the help they have had elsewhere, no one can make three books do the work of fifteen. The library, through inadequate space and insufficient equipment, is failing the schools in an essential part of its educational work. And the work with the children is so important that it seems surprising how year after year their needs can be repeatedly stressed and receive no response. These children are the hope of the town, the "hope of the world" as Hagedorn puts it, yet they have

neither the special room nor the books which the library needs for them and which the town really owes them.

The Memorial Hall Library is both a social center and an educational institution. The scope of its influence and of its service to the whole community is determined by the opportunity given it by the town.

Respectfully submitted,

EDNA A. BROWN

Librarian

STATISTICS OF THE LIBRARY

Number of books issued for home use at the Memorial Hall	39698
Number issued at Ballardvale	6491
Total for the year of 1923	46189
Number of borrowers' cards actually in use	3309
Books added by purchase	641
Books added by gift	135
Total additions	776
Books withdrawn, worn out, etc.	196
Total numbers of books in the library	26343
Volumes rebound	223
Volumes bound, periodicals, etc.	59

BALLARDVALE

Number of books issued for home use	6491
Number of cards in use	415
Books added by purchase	80
Books added by gift	22
Total additions	102
Books now belonging to the branch	1859

GIFTS

Gifts of books and pamphlets are acknowledged from state and government departments, from other libraries, from the A. V. I. S. and from the following individuals:

Mrs. Walter Buck; M. W. Colquhoun; Ruth Davis; Mrs. A. E. Foote; J. C. Graham; Rev. C. W. Henry; Vaughan Jealous; Mrs. Andrew Lawrie; George Millett; Mrs. H. G. Nesbitt; Alfred Ripley; George Ripley; Hon. J. J. Rogers; Rev. F. R. Shipman; P. W. Sprague; Emily Tracy; Dr. Roger Tracy.

INFORMATION FOR USERS OF THE LIBRARY

The Memorial Hall Library is open every day except Sundays and legal holidays from 9 to 12.30 in the morning, and from 3 to 9 in the afternoon and evening.

Any resident of Andover over ten years of age may have a library card upon filling out an application blank. Children in grades below the Punchard School are required to have their applications endorsed by both parent and teacher.

All grown people are allowed to take any reasonable number of books, provided that only one is a seven-day book. The Punchard pupils are permitted to borrow two, one fiction and one non-fiction.

Books are issued for fourteen days, *the date upon which the book is due* being stamped plainly on the "date due" slip at the time of issue. A book kept overtime incurs a fine of two cents for every day overdue. A few of the books most in demand are issued for seven days only. All these are labeled upon the book pocket, "Seven-day book." Books lost or damaged must be paid for.

Seven-day books are not renewed or reserved for anyone. Other books may be renewed if no one else has asked for them, and if a work not fiction is especially desired for any serious purpose, notice of its return to the library will be sent on request.

The shelves of the whole library are open to all grown people. The books are arranged according to subjects, and it is often much more satisfactory to go to the shelves and examine the books than to depend upon the catalogue.

The new books are listed at intervals in the weekly paper, and cumulated in the yearly library report, but the only complete record is the card catalogue. This catalogue is arranged alphabetically like a dictionary. To find whether any given book is in the library, look for it under the surname of the author, or under its title. The right-hand drawers of the case contain a second arrangement of cards where the books are entered according to the subjects of which they treat.

The new books purchased each month are placed for some weeks in a special case on the north side of the reading room, so that the most recent additions to the library may be found there. The library buys only a limited amount of new fiction but it tries to fill the wants of the community in regard to other books desired. People are invited to suggest for purchase the titles of books they wish.

The library staff is always glad to answer questions or in any way to help visitors find what they want.

LIST OF PERIODICALS AND NEWSPAPERS TAKEN FOR THE READING ROOM

American city
American Legion weekly (gift)
American monthly review of reviews
Atlantic monthly
Blackwood's magazine
Bookman
Book review digest
Catholic world
Century
Christian Endeavor world (gift)
Country gentleman
Country life in America
Cumulative book index
Etude
Federation topics (gift)
Forum
Garden magazine (gift)
Guide to nature (gift)
Harper's magazine
House beautiful (gift)
India rubber world (gift)
International studio (gift)
Ladies' home journal

Library journal
Life
Literary digest
Littell's living age
London weekly Times
Missionary review of the world
National geographic magazine
Nineteenth century
North American review
Open road
Outer's Recreation
Outlook
Popular mechanics
Public libraries
Radio News
Readers' guide to periodical literature
St. Nicholas
School arts magazine
Scientific American
Scribner's magazine
Survey
Textile world (gift)
The Woman Citizen
Woman's home companion
World's work
Youth's companion
Andover Townsman
Boston Herald
Boston Transcript
Christian Science Monitor
Lawrence Telegram
New York Times

NEW BOOKS ADDED DURING 1923

State and government documents are not listed. Duplicates, replacements and books for the Ballardvale branch are also omitted.

*(Books marked * are gifts)*

GENERAL REFERENCE BOOKS

- | | |
|-----------|---|
| 903 S79 | Standard dictionary of facts. |
| 912 T48 | Times Survey Atlas. |
| 929 V83 | *Vital Records of Deerfield, Acton, Mendon, Plympton. |
| 929.2 C76 | *Chamberlain, G. W. comp. The Spragues of Malden, Mass. |

PERIODICALS

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|-----------|--|
| 051 R32 | American monthly Review of Reviews, v. 66, 67. |
| 071 A552 | Andover Townsman, v. 35. |
| 051 A881 | Atlantic monthly, v. 130, 131. |
| 052 B56 | Blackwood's Edinburgh magazine, v. 212, 213. |
| 051 B64 | Bookman, v. 56, 57. |
| 051 C33 | Century, v. 104. |
| 051 F77 | Forum, v. 68, 69. |
| 716 G16 | Garden magazine, v. 36. |
| 051 H23 | Harper's magazine, v. 145. |
| 705 H81 | House beautiful, v. 53. |
| 705 I61 | *International studio, v. 75, 76. |
| 020.5 L61 | Library journal, v. 47. |
| 051 L71 | Littell's living age, v. 314-317. |
| 910.5 N21 | National geographic magazine, v. 42-43. |
| 052 N62 | Nineteenth century v. 92, 93. |
| 051 N81 | North American review, v. 217. |
| 051 O94 | Outlook, v. 132, 133. |
| 621 P81 | Popular mechanics, v. 38, 39. |
| 020.5 P96 | Public libraries, v. 27. |
| 051 S147 | St. Nicholas, v. 49, pt. 2, v. 50, pt. 1. |
| 370.5 S35 | School arts magazine, v. 22. |
| 605 S416 | Scientific American, v. 127, 128. |
| 051 S434 | Scribner's magazine, v. 73. |
| 051 W89 | World's Work, v. 45. |

ETHICAL AND RELIGIOUS BOOKS

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| (Purchased chiefly from the Phillips Fund) | |
| 225 B13 | Bacon, B. W. Making of the New Testament. |
| 231 B38 | Beckwith, C. A. The idea of God. |
| 204 B75 | Brewster, E. T. Understanding of religion. |

- 226 B75 Brewster, H. S. The simple gospel.
 268 B81 *Brown, F. L. The superintendent.
 268 C16 Candler, Martha. Drama in religious service.
 173 C41 Cheley, F. H. Job of being a dad.
 268 C79o Cope, H. F. Organizing the church school.
 268 E29s Eggleston, M. W. Stories for special days.
 230 F78 Fosdick, H. E. Christianity and progress.
 291 F86 Frazer, J. G. The golden bough.
 232 G66 Gore, Charles. Belief in Christ.
 172.4 G95 Gulick, S. L. Christian crusade for a warless world.
 173 H13 Hale, B. F. R. What's wrong with our girls?
 267.3 H24 *Harris, Frederick, ed. Service with fighting men. 2v.
 150 H72 Hollingworth, H. L. Judging human character.
 266 H74 Holtom, D. C. ed. Christian movement in Japan, Korea, and Formosa.
 215 K25 Keen, W. W. I believe in God and in evolution.
 270 L14 Lake, Kirsopp. Landmarks in the history of early Christianity.
 150 M61 Miller, H. C. The new psychology and the teacher.
 133 M99 Myers, F. W. H. Human personality.
 792 O12 Oberholtzer, E. P. Morals of the movie.
 232.9 P19 Papini, Giovanni. Life of Christ.
 237 P27 Pattison, A. S. Pringle- Idea of immortality.
 221 P51h Phelps, W. L. Human nature in the Bible.
 131 P61 Pierce, Frederick. Our unconscious mind.
 225 P81 Peake, A. S. Critical introduction to the New Testament.
 131 P99 Pym, T. W. Psychology and the Christian life.
 131 R44 Riggs, A. F. Just nerves.
 248 R81 Royden, A. M. Prayer as a force.
 173 S79 Stearns, A. E. Challenge of youth.
 150 T15 Tansley, A. G. The new psychology.
 220 V32 Van Loon, Hendrik. Story of the Bible.
 131 W16h Walsh, J. J. Health through will power.

EDUCATION AND ECONOMICS

- 395 B64 Book of business etiquette.
 371 B64 Boraas, Julius. Teaching to think.
 373 B76 Briggs, T. H. The junior high school.
 321.8 B84 Bryce, James. Modern democracies. 2v.
 304 C81 Corbin, John. Return of the middle class.
 371 D29 Davis, S. E. Technique of teaching.
 395 D42 Dennis, M. W. Training school of popularity.
 371 D515 Dewey, J. M. How to teach manners to school children.
 335 D74 *Doughty, W. H. Socialism and the average man.
 792 E47 Ellis and Thornborough. Motion pictures in education.
 340 G79 *Gray, J. C. Nature and sources of the law.
 353 H69 Holcombe, A. N. State government in the United States.
 301 L66 Lippmann, Walter. Public opinion.
 331.8 M22 MacLean, A. M. Our neighbors.
 372 W46 Wells, M. E. A project curriculum.

FARM AND HOME MANAGEMENT

- | | |
|-----------|---|
| 640 A42 | Allen, Edith. Mechanical devices in the home. |
| 643 B15 | Bailey, E. H. S. Food products. |
| 630 C62 | *Cobb, I. S. The abandoned farmers. |
| 636 C85 | Crandall, L. S. Pets, their care and history. |
| 640 D71 | Donham, S. A. Spending the family income. |
| 716 E11 | Earle, A. M. Old-time gardens. |
| 637 E66 | Erdman, H. E. Marketing of whole milk. |
| 636.5 H72 | Hannas, R. R. Popular poultry pointers. |
| 716 K58v | King, Mrs. Francis. Variety in the little garden. |
| 647 L88 | Lord, I. E. Getting your money's worth. |
| 649 S65 | Smith, R. M. The baby's first two years. |
| 635 W65 | Wilkinson, A. E. Sweet corn. |
| 613 W67 | Williams, J. F. Personal hygiene applied. |

SCIENCE, MECHANICAL AND USEFUL ARTS

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|-----------|---|
| 664 B15 | Bailey, E. H. S. Food products from afar. |
| 537.8 C87 | Croft, Terrill. American electrician's handbook. |
| 537.8 C95 | Cushing, H. C. Standard wiring. |
| 696 D54 | Dibble, S. E. Plumbers' handbook. |
| 621.3 F81 | Foster, H. A. comp. Electrical engineer's handbook. |
| 629.1 G59 | Good, A. A. Ford car, truck and tractor repair. |
| 654 H29 | Hausmann, Erich. Radio phone receiving. |
| 570 K29 | Kellogg, Vernon. Human life as the biologist sees it. |
| 671 K53 | Kidder, F. S. Triangulation applied to sheet metal cutting. |
| 590 L85m | Long, W. J. Mother Nature. |
| 654 R16 | Ranger, R. H. Radio pathfinder. |
| 523 S492 | Serviss, G. P. Astronomy in a nutshell. |
| 696 W67 | Williams, H. V. The new tinsmith's helper. |

FINE ARTS

- | | |
|-----------|---|
| 745 A18 | Ackerman, Phyllis. Wallpaper. |
| 704 A51 | *American Institute of Architects. Significance of the fine arts. |
| 749 C23n | Carrick, A. Van L. Next-to-nothing house. |
| 709 C82 | *Cotterhill, H. B. History of art. v.1. |
| 749 D98 | Dyer, W. A. Lure of the antique. |
| 709 F27 | *Faure, Elie. History of art. 3v. |
| 793 G271 | Geister, Edna. Let's play. |
| 780.9 L13 | Lahee, H. C. Annals of music in America. |
| 738 L52 | Lehmann and Kennard. Glass and glassware. |
| 745 L58 | Lewis, G. G. Practical book of oriental rugs. |
| 795 M76 | Montgomery, G. C. Modern auction. |
| 759.4 M29 | Male, Emile. Religious art in France. |
| 738 M38 | *Masse, H. J. L. J. Chats on old pewter. |
| 738 P41 | Percival, MacIver. The glass collector. |
| 395 P84 | Post, Emily. Etiquette. |
| 728 S43 | Seabury, J. S. New homes under old roofs. |
| 795 W58 | Whitehead, W. C. Auction bridge standards. |

LITERATURE, ESSAYS AND POETRY

- 808 C88 Crowther, M. O. Book of letters.
 824 C72 *Colvin, Sir Sidney. Memories and notes.
 822 D29 Davis, Owen. Icebound.
 824 E14p Eaton, W. P. Penguin persons and peppermints.
 827 F87 *Freeman, R. M. The new Boswell.
 821.08 H55 Hill, C. M. ed. The world's great religious poetry.
 655 J41 Jenison, Madge. The Sunwise turn.
 808 K68 Klickmann, Flora. Lure of the pen.
 827 L45o *Leacock, Stephen. Over the footlights.
 824 L96a *Lucas, E. V. Adventures and enthusiasms.
 824 M81i *Morley, Christopher. Inward ho!
 808 M88 Mosher, M. D. comp. More toasts.
 928 O96a *Overton, Grant. American nights entertainment.
 655 P14 Page, W. H. A publisher's confession.
 827 P16 *Pain, Barry. If winter don't.
 822 P76 Pollock, Channing. The fool, a play.
 808 R56 Robinson, M. L. Juvenile story writing.
 824 S44 Sedgwick, H. D. Pro vita monastica.
 824 S53m Sharp, D. L. The magical chance.
 822.08 S53w Shay, Frank, ed. Treasury of plays for women.
 824 W244g Warner, F. L. Groups and couples.
 822.08 W39 Webber and Hart. One-act plays for secondary schools.

DESCRIPTION AND TRAVEL

- 916.4 A57 Andrews, C. F. Old Morocco.
 917.446 B13g Bacon, E. M. Boston, a guide book.
 917.8 B38 Bechdolt, F. R. When the west was young.
 910.4 B62 Blunden, Edmund. The Bonaventure.
 916.7 B72 Bradley, M. H. On the gorilla trail.
 914.6 B816 Brown, Irving. Days and nights on the gypsy trail.
 910 B84 Bryce, James. Memories of travel.
 917.98 B94 Burr, A. R. Alaska.
 917.3 C42 Chesterton, G. K. What I saw in America.
 915.1 E56 Enders, E. C. Swinging lanterns.
 914.92 F32 *Feith, Jan. Modern Holland.
 918 F81 Foster, H. L. Adventures of a tropical tramp.
 915 F81 Foster, H. L. Beachcomber in the orient.
 917.8 F87 Freeman, L. R. Down the Yellowstone.
 917.4 G83 Greene, A. B. The lone winter.
 914 H88 *Hungerford, Edward. Planning a trip abroad.
 910 H92 Huntington, Ellsworth. Business geography.
 914.98 L24 Lane, R. W. Peaks of Shala.
 910 L96 *Lucas, E. V. Roving east and roving west.
 914.8 M46 Medill, Robert. Norwegian towns and people.
 914 A28 My unknown chum.
 917.44 N97 Nutting, Wallace. Massachusetts beautiful.
 910 O84 *Ossendowski, Ferdinand. Beasts, men and gods.
 917.8 P41 Perkins, E. B. The white heart of Mojave.
 915 P87 Powell, E. A. By camel and car to the peacock throne.

- 917.29 R43 Rider, Fremont. Bermuda.
 916.6 S41 Schweitzer, Albert. On the edge of the primeval forest.
 916.2 S49 Seton, G. T. Woman tenderfoot in Egypt.
 919.8 S64 Smith, C. E. From the deep of the sea.
 919.8 S81 Stefansson, Vilhjalmur. Northward course of empire.
 917.16 T66 Towne, C. H. Ambling through Acadia.

BIOGRAPHY

- 92 B457 Bernhardt, Sarah. Memories of my life.
 92 C942 Bok, E. W. A man from Maine.
 92 L633cha Charnwood, Lord. Abraham Lincoln.
 92 R674c Charnwood, Lord. Theodore Roosevelt.
 92 C546 *Clark, F. E. Memories of many men in many lands.
 92 G867 *Gresham, Matilda. Life of W. Q. Gresham. 2v.
 92 H142 *Hall, G. S. Life and confessions of a psychologist.
 92 H1851 Hamilton, Ernest, Lord. Forty years on.
 92 H186d Hamilton, Frederic, Lord. Days before yesterday.
 92 H186h Hamilton, Frederic, Lord. Here, there and everywhere.
 92 H186v Hamilton, Frederic, Lord. Vanished pomps of yesterday.
 92 A628 *Harper, I. H. Life and work of Susan B. Anthony. 3v.
 92 H339h Howe, P. P. Life of William Hazlitt.
 92 I79 Ishii, Tokichi. A gentleman in prison
 92 K356 Kenlon, John. Fourteen years a sailor.
 92 K55 Kilmer, Joyce. Poems, essays and letters. 2v.
 92 P162 Paine, R. D. Roads of adventure.
 928 P51 Phelps, W. L. Some makers of American literature.
 92 P888 Pratt, A. D. Homesteader's portfolio
 92 R134v Rainsford, W. S. Story of a varied life.
 92 S912 Straus, O. S. Under four administrations.
 92 T382 Thomson, Sir Basil. My experiences at Scotland Yard.
 92 V274f *Van Buren, Martin. Autobiography.
 92 B266w Werner, M. R. Barnum.
 92 W637 Wiggin, K. D. My garden of memory.
 920.7 W69 Wilson, V. A. Queen Elizabeth's maids of honor.

HISTORY

- 973.3 A21 Adams, J. T. Revolutionary New England.
 952 B77 Brinkley, Frank. History of the Japanese people.
 952 B81 Brown A. J. Mastery of the far east.
 391 E12c Earle, A. M. Costume of colonial days.
 954 F53 Fisher, F. B. India's silent revolution.
 952 G47 Gleason, George. What shall I think of Japan?
 947 H24 Harrison, M. E. Unfinished tales from a Russian prison.
 917.4 H72 Holliday, Carl. Woman's life in colonial days.
 974.4 M56 *Meserve, H. C. Lowell—an industrial dream come true.
 932 N14 Nahas, Bishara. Life and times of Tut-Ankh-Amen.
 971 S55 *Shortt, Adam, ed. Canada and its provinces. 23v.

FICTION

- | | |
|-------------------------|--------------------------------------|
| Abbott, Jane. | Minglestreams. |
| Adams, Adeline. | *The Amouretta landscape, etc. |
| Armstrong, H. H. | For richer, for poorer. |
| Arnim, M. A. B. | The enchanted April. |
| Ashmun, Margaret. | Support. |
| Ayscough, John. | Dobachi. |
| Bacheller, Irving. | The Scudders. |
| Bailey, Temple. | The dim lantern. |
| Barres, Maurice. | *Colette Baudoche. |
| Beach, Rex. | Flowing gold. |
| Bennett, Arnold. | Riceyman Steps. |
| Benson, E. F. | *Across the stream. |
| Benson, E. F. | Miss Mapp. |
| Beresford, J. D. | Prisoners of Hartling. |
| Bindloss, Harold. | The bush-rancher. |
| Bindloss, Harold. | Lister's great adventure. |
| Bojer, Johan. | Last of the vikings. |
| Bordeaux, Henry. | The house that died. |
| Bottome, Phyllis. | The victim and the worm. |
| Bower, B. M. | The voice at Johnnywater. |
| Brown, Alice. | Old Crow. |
| Brown, Alice. | Wind between the worlds. |
| Buchan, John. | Huntingtower. |
| Buchan, John. | Midwinter. |
| Buchan, John. | Watcher by the threshold. |
| Burr, A. R. | The wrong move. |
| Cadmus, pseud. | *Island of sheep. |
| Cather, Willa. | A lost lady. |
| Cather, Willa. | One of ours. |
| Cather, Willa. | Youth and the bright Medusa. |
| Curwood, J. O. | The Alaskan. |
| Curwood, J. O. | The country beyond. |
| Curwood, J. O. | The river's end. |
| Dehan, Richard. | The just steward. |
| Delano, E. B. | Land of content. |
| De la Pasture, E. E. M. | *The optimist. |
| De la Pasture, E. E. M. | *A reversion to type. |
| De la Roche, Mazo. | Explorers of the dawn. |
| Diver Maud. | The strong hours. |
| Evarts, H. G. | Tumbleweeds. |
| Evarts, H. G. | The yellow horde. |
| Fairbanks, J. A. | The Cortlandts of Washington Square. |
| Farnol, Jeffery. | The definite object. |
| Farnol, Jeffery. | My lady Caprice. |
| Farnol, Jeffery. | Peregrine's progress. |
| Ferguson, John | *The dark Geraldine. |
| Fisher, D. C. | *Raw material. |
| Flandrau, G. H. | Being respectable. |
| Fletcher, J. S. | Charing Cross mystery. |
| Fletcher, J. S. | Exterior to the evidence. |

Forman, H. J.	Man who lived in a shoe.
Fuller, Margaret.	One world at a time.
Furman, Lucy.	The quare women.
Gale, Zona.	Faint perfume.
Galsworthy, John.	*Captures.
Galsworthy, John.	The country house
Galsworthy, John.	The man of property.
Gartland, Hannah.	The Globe Hollow mystery.
Gerould, K. F.	The great tradition.
Gerould, K. F.	Valiant dust.
Gilman, D. F.	Lorraine.
Green, A. K.	The step on the stair.
Grenfell, W. T.	Northern neighbors.
Grey, Zane.	Light of western stars.
Grey, Zane.	*Wanderer of the wasteland.
Hannay, James.	The great-grandmother.
Harker, L. A.	Really romantic age.
Harris, Corra.	Daughter of Adam.
Hawes, C. B.	The dark frigate.
Hay, Ian, pseud.	The lucky number.
Hext, Harrington.	The thing at their heels.
Jones, E. B. C.	The Wedgwood medallion.
Kaye-Smith, Sheila.	End of the house of Alard.
Keith, Marian.	Bells of St. Stephen's.
King, Basil.	The dust-flower.
King, Basil.	The happy isles.
Laing, Janet.	Man with the lamp.
Landon, Herman.	*Gray terror.
LeBlanc, Maurice.	*Woman of mystery.
Lee, Jennette.	Mysterious office.
Leverage, Henry.	The white cipher.
Lincoln, J. C.	Doctor Nye.
Lowndes, Mrs. Belloc.	From out the vasty deep.
Lowndes, Mrs. Belloc.	What Timmy did.
Lucas, E. V.	Genevra's money.
Lutz, G. L. H.	The big blue soldier.
Lutz, G. L. H.	The search.
Lutz, G. L. H.	Tomorrow about this time.
McCutcheon, G. B.	Oliver October.
McFee, William.	Command.
Mackenzie, Compton.	Seven ages of women.
Mansfield, Katherine.	The garden party, etc.
Marquand, J. P.	The unspeakable gentleman.
Marshall, Archibald.	The Clinton twins, etc.
Marshall, Archibald.	Pippin.
Marshall, Edison.	Isle of retribution.
Marshall, Edison.	Voice of the pack.
Martin, Absalom.	Kastle Krag.
Martin, H. R.	Church on the avenue.
Maxwell, W. B.	The day's journey.
Maxwell, W. B.	*The guarded flame.
Maxwell, W. B.	Spinster of this parish.

Milne, A. A.	Once upon a time.
Mitchell, R. C.	Corduroy.
Montgomery, L. M.	Emily of New Moon.
Morley, Christopher.	Where the blue begins.
Morris, E. B.	Our Miss York.
Norris, Kathleen.	Butterfly.
Norris, Kathleen.	Josselyn's wife.
O'Brien, H. V.	Trodden gold.
Ollivant, Alfred.	"Old For-ever."
Olmstead, Florence.	Madame Valcour's lodger.
Onions, Mrs. Oliver.	Bridge of kisses.
Onions, Mrs. Oliver.	Sir or Madam.
Oppenheim, E. P.	Cinema murder.
Oppenheim, E. P.	The seven conundrums.
Payne, E. S.	Fathoms deep.
Pendexter, Hugh.	Pay gravel.
Phillpotts, Eden.	The Red Redmaynes.
Poole, E. A.	Millions.
Prouty, O. H.	Stella Dallas.
Pryde, Anthony.	Clair de lune.
Quick, Herbert.	The hawkeye.
Ragsdale, Lulah.	The next-besters.
Raine, W. M.	Brand blotters.
Reynolds, Mrs. Baillie.	Judgment of Charis.
Reynolds, Mrs. Baillie.	The lonely stronghold.
Richards, Mrs. L. E. H.	In blessed Cyrus.
Richmond, G. L. S.	Rufus.
Roberts, Cecil.	Scissors.
Rohmer, Sax.	*Tales of China-town.
Rowland, H. C.	Hirondelle.
Russell, John.	Where the pavement ends.
Sawyer, Ruth.	Gladiola Murphy.
Sidgwick, Mrs. Alfred.	*Iron cousins.
Simon, R. A.	"Our little girl."
Singmaster, Elsie.	The hidden road.
Slade, C. J.	*The cuckoo's nest.
Snaith, J. C.	*The great age.
Spearman, F. H.	Laramie holds the range.
Stanford, A. B.	The ground swell.
Sterrett, F. R.	Mary Rose of Mifflin.
Stockley, Cynthia.	Ponjola.
Tarkington, Booth.	The fascinating stranger, etc.
Thompson, Vance.	The pointed tower.
Tilden, Freeman.	Mr. Podd.
Vance, L. J.	*The lone wolf returns.
Walpole, Hugh.	Jeremy and Hamlet.
Wells, Carolyn.	Feathers left around.
Wells, Carolyn.	*Spooky Hollow.
Wells, H. G.	Men like gods.
Wharton, Edith.	*A son at the front.
Widdemer, Margaret.	A minister of grace.
Widdemer, Margaret.	You're young only once.

Williams, W. W.	Family.
Wilson, H. L.	Ma Pettingill.
Wilson, H. L.	Oh, doctor!
Wilson, Margaret.	The able McLaughlins.
Wodenhouse, P. G.	Mostly Sally.
Wyatt E. F.	The invisible gods.

CHILDREN'S BOOKS—NON-FICTION

680 B33	Baxter, L. H. Toy craft.
599 B34j	Baynes, E. H. Jimmie, the story of a black bear cub.
599 B34p	Baynes, E. H. Polaris, an Esquimaux dog.
920 B38	Beard A. E. S. Our foreign-born citizens.
398.4 B46	Beston, H. B. The starlight wonder book.
398.4 B67e	Bowen, William. The enchanted forest.
927.8 B81	Brower, Hariette. Story-lives of master musicians.
940 B85	Buchan, John. Book of escapes and hurried journeys.
670 C35	Chamberlain, J. F. How we are clothed.
630 C35	Chamberlain, J. F. How we are fed.
627.9 C69	Collins, F. A. Sentinels along our coast.
398.4 C72c	Colum, Padraic. Children who followed the piper.
573 D72h	Dopp, K. E. The early herdsmen.
398.4 D98i	Dyer, R. O. Adventures of the ink spots.
395 F93	Everyday manners for boys and girls.
593 G25	Gaylord, I. N. Little sea-folk.
680 H14ho	Hall, A. N. Home-made games and equipment.
913.3 H14	Hall, Jennie. Buried cities.
914 H49	Hewins, C. M. A traveler's letters to boys and girls.
398.2 H69	Holbrook, Florence, comp. Book of nature myths.
92 W272j	Jackson, W. C. Boys' life of Booker T. Washington.
523 J62	Johnson, Gaylord. The sky movies.
232.9 R44	Rihbany, A. M. The Christ story for boys and girls.
353 S54	Shepherd, W. G. Boys' own book of politics.
342.7 T16	Tappan, E. M. Story of our constitution.
808.9 W63	Wickes, F. G. comp. Happy holidays.

STORIES FOR CHILDREN

Abbott, Jacob.	Franconia stories.
Abbott, J. D.	Larkspur.
Adams, Katherine.	Mehitable.
Adams, Katherine.	Wisp—a girl of Dublin.
Bassett, S. W.	Walter and the wireless.
Bennett, E. H.	Camp Ken-jockety.
Brown, E. A.	Whistling Rock.
Chesnez, Baroness des.	Lady Green Satin and her maid Rosette.
Dudley, A. T.	The king's powder.
Gollomb, Joseph.	Working through at Lincoln High.
Gray, Joslyn.	The other Miller girl.
Guyol, L. H.	The funny house.
Hartley, G. I.	The last parrakeet.

Hawkes, Clarence.	Dapples of the circus.
Hewes, A. D.	Boy of the lost crusade.
Hume, Ethel.	Judy of York Hill.
Ives, S. N.	Dog heroes of many lands.
Kipling, Rudyard.	Land and sea tales.
Lofting, Hugh.	Doctor Dolittle's postoffice.
Loomis, A. F.	The Sea Bird's quest.
Marshall, Archibald.	Audacious Ann.
Mukerji, D. G.	Kari the elephant.
Newberry, Perry.	Black boulder claim.
Perkins, L. F.	The Filipino twins.
Phillips, E. C.	A story of Nancy Hanks.
Spyri, Johanna.	Vinzi.
Tappan, E. M.	Ella.
With, K. H.	The mouse story.
Zwilmeyer, Dikken.	Four cousins.

REPORT OF CUSTODIAN JOHN CORNELL ART GALLERY

To the Trustees of the Memorial Hall Library.

GENTLEMEN: I herewith submit the report of the gallery for the twelve months ending December 31, 1923.

The attendance for the year has been somewhat in advance of that of recent years, 300 visitors being listed, of which 130 were adults and 170 children.

There have been few instances in which the parents have accompanied the children. One regrets this much. No doubt many are too busy or tired to make the effort. It is a distinct pleasure to all when such visits occur.

The desire has been expressed before that more adults could experience the genuine satisfaction attending a call at the gallery, —a real call, not a perfunctory glance. Even a half-hour spent in such a restful atmosphere is conducive to refreshment of spirit. It is only just to record, and one is glad to do so, that a careless attitude towards the pictures is not a common occurrence. The type of person who "gallops through the Louvre" rarely calls at the gallery.

Occasional remarks from callers indicate that many persons in town are cherishing the hope that the time is not too far away when they can frequently and easily drop in to enjoy the pictures. It sounds good.

The small attendance of the children is regretted. Of course the majority are new comers, and eager to explore. The interest of some is quickly satisfied, while others tarry, ask questions, and come again. The wide range of pictures makes an alluring combination, and the children love them. One expects the pictures with a story to attract them — when will any one be too old to enjoy a compelling story? — but many are drawn to the

portraits, and of course to the few but choice landscapes and marines. Some enjoy studying textures. It is interesting to observe them, and most encouraging.

The gallery has surely been of great value to many children as well as adults. Taken all in all, one can report that it is functioning, even if results appear negligible.

Respectfully submitted,

ABBIE S. DAVIS

Custodian

TOWN OF ANDOVER

TWENTY-THIRD ANNUAL
REPORT

OF THE

BOARD OF PUBLIC WORKS

EMBRACING THE THIRTY-FOURTH ANNUAL REPORT OF
WATER COMMISSIONERS AND TWENTY-
SIXTH ANNUAL REPORT OF
SEWER COMMISSIONERS

FOR THE YEAR ENDING

DECEMBER 31, 1923

ANDOVER, MASS.
THE ANDOVER PRESS
1924

WATER COMMISSIONERS

1889—1899

*JOHN H. FLINT

*JAMES P. BUTTERFIELD

*FELIX G. HAYNES

SEWER COMMISSIONERS

1893—1894

*WM. S. JENKINS

*JOHN L. SMITH

CHARLES E. ABBOTT

1894—1899

*WM. S. JENKINS

*JOHN L. SMITH

*JOHN E. SMITH

BOARD OF PUBLIC WORKS

1899—1902

*JOHN H. FLINT

*WM. S. JENKINS

*JOHN L. SMITH

*JAMES P. BUTTERFIELD

*FELIX G. HAYNES

1906—1907

*FELIX G. HAYNES

*JOHN W. BELL, Treas.

JAMES C. SAWYER, Sec'y

*LEWIS T. HARDY

*HARRY M. EAMES

1908—1912

*LEWIS T. HARDY

*JOHN W. BELL, Treas.

JAMES C. SAWYER, Sec'y

ANDREW McTERNEN

WILLIS B. HODGKINS

1914—1916

THOS. E. RHODES ('19)

BARNETT ROGERS ('16)

*LEWIS T. HARDY ('16)

ANDREW McTERNEN, Sec'y ('18)

WILLIS B. HODGKINS, Treas. ('18)

1917—1918

BARNETT ROGERS ('19)

THOS. E. RHODES ('20)

ANDREW McTERNEN ('18)

CHAS. B. BALDWIN, Sec'y ('19)

WILLIS B. HODGKINS, Treas. ('18)

1919-1920-1921

ARNETT ROGERS ('22)

WILLIAM D. McINTYRE ('21)

ARTHUR T. BOUTWELL ('22)

PHILIP L. HARDY Sec'y ('21)

THOS. E. RHODES, Treas. ('23)

1903—1906

*JOHN L. SMITH

*FELIX G. HAYNES

*JOHN W. BELL

*LEWIS T. HARDY

JAMES C. SAWYER

1907—1908

*FELIX G. HAYNES

*JOHN W. BELL, Treas.

JAMES C. SAWYER, Sec'y

*LEWIS T. HARDY

ANDREW McTERNEN

1913—1914

*LEWIS T. HARDY ('16)

BARNETT ROGERS ('16)

ANDREW McTERNEN ('15)

THOS. E. RHODES, Sec'y ('14)

WILLIS B. HODGKINS, Treas. ('15)

1916—1917

BARNETT ROGERS ('19)

THOS. E. RHODES ('17)

ANDREW McTERNEN ('18)

CHAS. B. BALDWIN, Sec'y ('19)

WILLIS B. HODGKINS, Treas. ('18)

1918—1919

BARNETT ROGERS ('22)

ANDREW McTERNEN ('21)

PHILIP L. HARDY ('21)

CHAS. B. BALDWIN, Sec'y ('22)

THOS. E. RHODES, Treas. ('20)

1922

THOMAS E. RHODES ('23)

PHILIP L. HARDY ('24)

WM. D. McINTYRE, Treas. ('24)

ARTHUR T. BOUTWELL ('25)

EDWARD SHATTUCK ('25)

1923

PHILIP L. HARDY ('24)

WM. D. McINTYRE, Sec. ('24)

ARTHUR T. BOUTWELL, Treas. ('25)

EDWARD SHATTUCK ('25)

WALTER I. MORSE ('26)

SUPERINTENDENT

FRANK L. COLE

* Deceased.

REPORT OF BOARD OF PUBLIC WORKS

To the Citizens of the Town of Andover, Mass.:

Your Board of Public Works herewith submits its annual report for the year ending December 31, 1923.

This is the eleventh annual report of the Board under its re-organization, and includes the twenty-seventh annual report of the Sewer System, the thirty-fifth of the Water System, and the eleventh of the Highway and Park Departments, since they have been under the jurisdiction of the Board of Public Works.

ORGANIZATION

Mr. Walter I. Morse was elected to the Board for the term of three years. The Board met on March 12, 1923, and organized as follows: Chairman, Philip L. Hardy; Secretary, William D. McIntyre; Treasurer, Arthur T. Boutwell. Mr. Frank L. Cole was appointed superintendent for one year and Mr. George Dick as his assistant.

WATER DEPARTMENT

During the past year there has been added to the Water System, fourteen thousand two hundred nineteen feet (14,219 ft.) of 6-inch and 8-inch cast-iron pipe; also twenty-one (21) hydrants, together with fifty (50) gates. A detailed account of this work will be found in the superintendent's report.

With the above extensions, our water mains now total fifty-seven and eighty-four hundredths (57.84) miles, with four hundred and sixty-two (462) hydrants. A thorough inspection has been made of all hydrants with relation to their working conditions, and a pressure test taken of same. We feel from the results of this inspection, and after talking over the matter with insurance authorities, that both the supply and the pressure of

the water system is highly satisfactory, and with proper care taken in opening and closing the hydrants, we feel each unit should function 100% efficient.

This department has now as a part of its equipment a managraph which can be used as a measuring device, also to check up the efficiency of the pumps as well as to show the presence of any large leaks in our water mains.

A contract has been awarded to the Lawrence Pump and Machine Co., Lawrence, Mass., to install an electrical pump at the Pumping Station. This pump will be ready to use about April 1st. This unit will pump about 30% more water than the present steam plant, and we have every reason to believe, with the electrical unit as the main operating force, with the steam plant as an auxiliary, your pumping plant is equipped to meet any emergency. This has been the record year for pumping, three hundred and thirty-two million (332,000,000) gallons being pumped, adding six thousand dollars (\$6,000.00) more to the water receipts than last year.

It is a plan of the Board to grade around and put in a more presentable condition, the grounds around the pumping station; also to fence in a certain portion of the pond each year.

The Board would recommend the sum of thirty-three thousand five hundred dollars (\$33,500.00) for maintenance of the Water Department for the ensuing year; also the sum of fifteen thousand dollars (\$15,000.00) to be used for construction expense and service pipes. The reason for asking the additional twelve thousand five hundred dollars (\$12,500.00) for construction expense and service pipe is, that we heretofore had the use of all credits from this class of work. This system, however, has been discontinued and all credits must be turned in to the Town Treasury. A detailed account of the estimated expenditures of the maintenance of the Water Department will be found in the Superintendent's report.

THE WATER BONDED DEBT

The bonded debt of the Water System, January 1, 1923, was one hundred and thirty-one thousand dollars (\$131,000.00). During the year 1923 there was paid twenty thousand dollars (\$20,000.00), leaving on the bonded debt system a balance of

one hundred eleven thousand dollars (\$111,000.00). Of this indebtedness, twenty thousand dollars (\$20,000.00) is redeemable by the sinking fund, which on January 1, 1924, amounted to nineteen thousand, one hundred and twenty-six dollars, and sixty-nine cents (\$19,126.69). No further appropriations for this fund will be necessary, as the interest on the amount on deposit will meet the sum required through interest when due.

SEWER DEPARTMENT

The principal work done in this department this year was the building of the Outfall Sewer to the Merrimack River. We present you below a summarized report as presented to us by the firm of Weston & Sampson, engineers.

Feb. 1, 1924

Board of Public Works,

Town of Andover, Mass.

Gentlemen:

We respectfully present the following progress report on the construction of the outfall sewer to the Merrimack River to January 1, 1924.

PRELIMINARY

Following our report of January 29, 1923, on the best method of sewage disposal for the Town of Andover, your Board caused an article to be inserted in the Town Warrant asking for a bond issue of \$150,000 for the construction of an outfall sewer to the Merrimack River, which was voted.

A bill was then filed with the Legislature and referred to the Committee on Finance. After two hearings at which the various parties interested were represented, the bill was approved on February 26, 1923, under Chapter 69, Acts of 1923, as follows:

"An Act Authorizing the Town of Andover to Construct an Outfall Sewer for the Disposal of Its Sewage."

Be it enacted, etc., as follows:

Section 1. For the purpose of disposing of the sewage and manufacturing wastes of the Town of Andover, said

town may lay out, construct and maintain an outfall sewer with an outlet into the Merrimack River, and for the aforesaid purpose may take by eminent domain under chapter seventy-nine of the General Laws, or acquire by purchase or otherwise, such lands, water rights, rights of way and easements in said town as may be deemed necessary for the establishment of such system of sewage disposal and for any connections therewith, and may so take or acquire a strip of land of such width as may be deemed necessary on the westerly side of the Shawsheen river extending from the boundary of said town through a portion of the city of Lawrence to said Merrimack river. For the aforesaid purpose, said town may lay sewers through private and other lands and under any way or railroad, and for the aforesaid purpose or for repairing such sewers, may enter upon and dig up such private and other lands, ways or railroads in such manner as not unnecessarily to obstruct the same; provided, that said town shall not do any of the aforesaid work within the location of any railroad corporation except at such time and in such manner as it may agree upon with such corporation, or, in case of failure so to agree, as may be approved by the department of public utilities. Said town shall leave any way so dug up in the city of Lawrence in a condition satisfactory to the city engineer of said city.

Section 2. No act shall be done under authority of the preceding section until plans of said outfall sewer with an outlet into the Merrimack river shall have been approved by the department of public health of the commonwealth, and no lands, water rights, rights of way, or easements outside the boundaries of the town of Andover shall be taken or acquired by said town until approved by the said department after notice to the cities and towns affected by said acquisition or taking and a public hearing by said department to all parties interested.

Section 3. Any person injured in his property by any action of said town under this act may recover damages from said town under said chapter seventy-nine.

Section 4. For the purpose of paying the necessary expenses and liabilities incurred under this act, said town may

from time to time borrow such sums as may be necessary not exceeding, in the aggregate, one hundred and fifty thousand dollars, and may issue bonds or notes therefor, which shall bear on their face the words, Andover Sewer Loan, Act of 1923. Each authorized issue shall constitute a separate loan. Indebtedness under this act shall be in excess of the statutory limit, but shall, except as provided herein, be subject to chapter forty-four of the General Laws.

Section 5. This act shall take effect upon its passage, but no expenditure shall be made and no liability incurred thereunder unless said act shall first be accepted by vote of two thirds of the legal voters of the town of Andover present and voting thereon at a legal meeting called for that purpose within three years from the date of its passage.

Approved February 26, 1923

As provided in the bill, a hearing was held before the Department of Public Health on June 1, 1923, and the plans of the outfall sewer, the outlet into the Merrimack River and the taking of the necessary rights of way as proposed were approved by the Department.

In addition, a petition to construct and maintain an outlet in the Merrimack River, as proposed, was presented to the Massachusetts Department of Public Works and approved August 30. Another petition to the United States War Department, also to construct and maintain the outlet in the Merrimack River, was granted on October 4, 1923.

PLANS, SPECIFICATIONS AND PROPOSALS

In the meantime we had prepared contract drawings and specifications, and on June 2, the following proposals for the construction of the outfall sewer were received and opened:

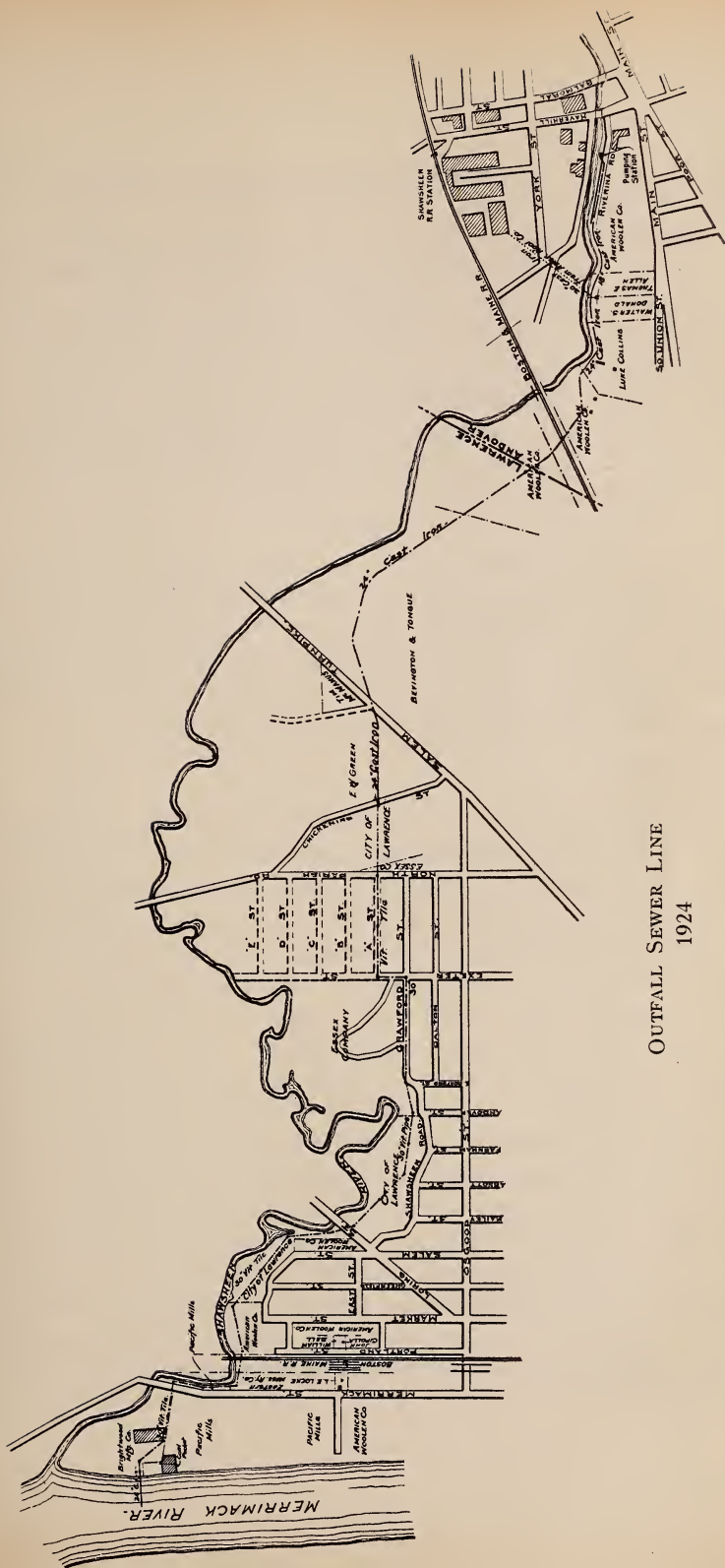
<i>Contract</i>	<i>Amount</i>
Cenedella and Company	\$68,355.50
Louis Cyr	79,788.50
George M. Byrne Company	87,247.00
John Williams and Company	87,617.00
Vicenza Grande	107,906.00
John E. Palmer Company	113,402.00
Frank Drinkwater	134,752.50

All of the proposals were based upon unit prices for the various items of the work, and the above figures are the totals of the bids as computed from the estimated quantities. The contract was awarded to the lowest bidder, Cenedella and Company of Milford, Mass., on the following basis:

	<i>Item</i>	<i>Estimated Quantity</i>	<i>Unit Price</i>	<i>Total</i>
1—a	Earth Excavation, 0-8 ft.	13,750 cu. yd.	\$2. 15	\$29562.50
b	" " 8-12 ft.	1,750 "	3. 00	5250.00
c	" " 12-16 ft.	525 "	3. 50	1837.50
d	" " 16-20 ft.	725 "	3. 50	2537.50
e	" " 20-24 ft.	60 "	10. 00	600.00
f	" " 24-28 ft.	12 "	20.00	240.00
2	Earth Fill and Embankment	1,050 "	2. 00	2100.00
3	Rock Excavation	900 "	5. 00	4500.00
4	Concrete Masonry	75 "	35.00	2625.00
5	Steel Reinforcement	3,000 lbs.	0. 15	450.00
6	Brick Masonry	70 cu. yd.	40.00	2800.00
7—a	Laying and Jointing 18" C.I.P.	1,240 lin. ft.	0. 75	930.00
b	" " " 24" "	7,160 " "	1. 40	10024.00
c	" " " 24" Vit. P.	725 " "	0. 40	290.00
d	" " " 30" "	3,985 " "	1. 00	3985.00
8	Setting M.H. Frames and Covers	19	6.00	114.00
9	Iron Steps for Manholes	110	1. 00	110.00
10	Extra Work	+15		
11	Lumber Left in Place	10 M.B.M.	40.00	400.00
				\$68355.50

LOW LEVEL SEWER

The City of Lawrence being desirous of providing for the domestic sewage from an undeveloped residential area of about 100 acres, lying south of Boxford Street and east of South Union Street, and at an elevation too low to be served by the Osgood Street sewer without pumping, then entered into negotiations with the town of Andover which called for a low-level sewer to be constructed beginning at a drop manhole just north of the Essex Company stone culvert on Crawford Street, following along the Shawsheen River and entering the Merrimack River on land of the Brightwood Manufacturing Company. An agreement was reached whereby the Town of Andover was to construct this low-level sewer and the City of Lawrence agreed to reimburse the Town for the excess cost of the low-level sewer



OUTFALL SEWER LINE
1924

over the cost of the sewer originally proposed, estimated to be about \$45,000.

Inasmuch as the approval of the location of the outfall sewer and outlet into the Merrimack River by the Department of Health was based on the original location, following along Crawford Street, Shawsheen Road, East Street, Market Street, and on private property across Portland Street, the Boston and Maine Railroad, Merrimack Street and along the private way of the Pacific Mills adjoining the American Woolen Company's storehouse to the river, it was necessary for the Department to hold another hearing, which was done July 10, and the low-level sewer was approved by the Department.

It was then necessary to revise the contract plans and to enter into another contract for the construction of that portion of the original contract which was affected by the change in location of the sewer. This work was awarded to Cenedella and Company at the same unit prices as the first contract except for certain items which were necessarily affected by the change.

DESCRIPTION

The accompanying general plan shows the location of the outfall sewer as built from the pumping station to the Merrimack River. The sewer consists of an 18-inch and 24-inch cast-iron force main from the pumping station to Chickering Street, 30-inch double strength vitrified tile from Chickering Street to the Merrimack River, and 24-inch cast-iron for the outlet into the river.

The cast-iron pipe is laid with "Leadite" joints, and the tile pipe with jute and cement mortar joints. An air and vacuum valve is provided at a summit north of the Boston and Maine Railroad on land of the American Woolen Company, and an emergency blow-off and drain into a brook at a low point, also on land of the American Woolen Company. The manholes on the gravity section are of brick, 5 feet 0 inches diameter, with iron steps and standard heavy-weight manhole frames and covers. Connections for the City of Lawrence sewers have been provided at Chickering Street, the drop manhole on Crawford Street, Boxford Street extended and Andover Street extended.

The total length of the outfall sewer is 14,325.80 feet, divided as follows:

18" C. I. pipe from the Y branch at the pumping ing 'station to the 20" American Woolen Co. connection,	1,230.02 ft.
24" C. I. pipe from the American Woolen Co. connection to the Andover-Lawrence line,	1,726.93 ft.
24" C. I. pipe from the Andover-Lawrence line to Chickering Street,	3,559.00 ft.
30" vitrified tile from Chickering Street to the outlet manhole at the Merrimack River,	7,458.85 ft.
24" C. I. from the outlet manhole to the end of the outlet in the Merrimack River,	351.00 ft.

PURCHASE OF MATERIALS

In order to expedite the work and to take advantage of favorable prices for materials, your Board purchased and delivered along the line of the sewer all C. I. pipe, gate valves, special castings, vitrified tile pipe and manhole frames and covers. This proved to be decidedly advantageous as the price of C. I. pipe advanced several dollars per ton even before the contract bids were received, thus saving approximately \$10,000 to the Town of Andover, and due to congested conditions in the cast-iron pipe foundries and among vitrified tile manufacturers, the work would have been greatly delayed had the furnishing of pipe been included in the contract. The unloading, hauling and delivering of the pipe along the sewer was awarded to J. F. McDonough of Andover.

CONSTRUCTION

The contractor began work on June 25 and favored by a very dry summer with moderate temperatures and an equally dry fall and winter, with mild weather, rapid progress was made so that at the end of the year there remained only the final connections at the pumping station in Shawsheen Village and the connections near the settling tank at the filtration plant to divert the high-level sewage into the outfall sewer through the 12-inch C. I. pipe originally intended to connect the pumping station with the filtration plant.

The following monthly estimates under the contract were presented to your Board during the year 1923:

<i>Month</i>	<i>1st Contract</i>	<i>2nd Contract</i>	<i>Total</i>
July	\$7,607.50	\$3,153.71	\$10,761.21
August	9,417.58	14,630.41	24,047.99
September	8,323.62	14,023.90	22,347.52
October	6,260.46	14,333.55	20,594.01
<hr/>			
Total	\$31,609.16	\$46,141.57	\$77,750.73

We will submit a final report on the outfall sewer upon its completion. The total cost of the sewer when completed will be several thousand dollars less than estimated.

Respectfully submitted,

WESTON & SAMPSON

When this new system of sewage disposal is in operation, we would recommend the sale of the present filter beds; they having outlived their usefulness to us, and we have inserted an article in the Warrant to that effect.

We would recommend for maintenance of sewer six thousand dollars (\$6,000.00) for the ensuing year.

THE SEWER BONDED DEBT

The bonded debt of the Sewer System, January 1, 1923, was one hundred six thousand dollars (\$106,000.00). During the year seven thousand dollars (\$7,000.00) was paid from the Town Treasury on this indebtedness. Consequent to the building of the outfall sewer, there has been added one hundred fifty thousand dollars (\$150,000.00) to this amount, making the total bonded debt on this system, January 1, 1924, two hundred forty-nine thousand dollars (\$249,000.00). Of this amount, thirty thousand dollars (\$30,000.00) is redeemable by the sinking fund, which on January 1, 1924, amounted to twenty-five thousand fifty-seven dollars and seventy-six cents (\$25,057.76). The sum of one thousand dollars (\$1,000.00) should be appropriated for the sinking fund for the year 1924.

PARK DEPARTMENT

The sum of eighteen hundred dollars (\$1,800.00) is recommended for the maintenance of the Park Department for the ensuing

year. This is six hundred dollars (\$600.00) greater than the amount asked for last year. The cause for the additional amount asked for is the purchase of a power lawn-mower, and the grading of the so-called Cunningham property.

HIGHWAY DEPARTMENT

Under the maintenance appropriation the usual work was done during the year 1923 as follows: gutters and catchbasins were cleaned out, roads patched and repaired, and the tarvia roads blanketed where necessary.

The snowfall of last winter was one of the heaviest in years, making it almost impossible to keep the walks and roads open to travel. This winter we are better equipped to meet this situation, having a State truck equipped with a plough, as well as three Town trucks with the equipment for attaching ploughs whenever occasion should warrant.

Under construction the following streets were rebuilt: Shawshen Road, Haverhill Street, Main Street; and William Street re-surfaced. Main Street was rebuilt from the Shawsheen River to the Lawrence line, and is of the reinforced cement type, the entire work being done under the supervision of the State Highway Division. The Town and the American Woolen Company paid equally fifteen thousand dollars (\$15,000.00) towards this work. The total cost of this job was one hundred eighteen thousand, four hundred fifty-one dollars and twenty-five cents (\$118,451.25). The progress on this job was slow, and great inconvenience was felt during the period of construction; however, we feel this is a very satisfactory piece of work.

At a special town meeting held on September 17, the sum of thirty thousand dollars (\$30,000.00) was appropriated to rebuild Haverhill Street. Bids were asked for, and the contract was awarded to T. G. Jewett, Jr., of New Bedford; this road is also of reinforced cement type. The job was started at once, and completed on November 14, at a cost of thirty-seven thousand, four hundred five dollars and twenty-six cents (\$37,405.26). The County paid forty-nine hundred dollars (\$4,900.00), the State eight thousand dollars (\$8,000.00), and the Town twenty-four thousand, five hundred five dollars and twenty-

six cents (\$24,505.26) toward this work. Due to the very efficient work of the contractor, together with the favorable weather conditions, the work was not only completed well within the specified time, but a balance of five thousand, four hundred ninety-four dollars and seventy-four cents (\$5,494.74) was turned back into the Town Treasury.

The partial building of Shawsheen Road, jointly with M. McDonough & Co., of Swampscott, will when completed open another main artery from Andover center to Lowell. The completion of this work, which is about seven thousand (7,000) yards, is part of the proposed work this year. The re-surfacing of William Street was a necessary factor in our construction work, as we felt any delay on this thoroughfare might be a costly one to the Town, it being of a more expensive grade of construction than many of our other streets. The detailed account of the work on both Shawsheen Road and William Street will be found in the superintendent's report.

We have received numerous communications from the Lowell Post Office authorities relative to the very unsatisfactory roads in West Andover they are called upon to use. The most recent communication advised us that unless better roads could be furnished in that district, they may be compelled to discontinue this rural route. We have repaired many of these roads with ashes this winter, and anticipate caring for many more in the spring.

The Board feels from the continued demands for better roads in the various sections of Town, and with increased traffic going over our roads, that the appropriation for the Highway Department should be increased instead of decreased, and would accordingly recommend the appropriation of eighty-five thousand dollars (\$85,000.00) for the Highway Department for the ensuing year, forty thousand dollars (\$40,000.00) of this for new construction, and forty-five thousand dollars (\$45,000.00) for maintenance.

ROGER'S BROOK

At a special Town meeting held on June 12, twenty-five hundred dollars (\$2,500.00) was voted for the purpose of eliminating the overflow of Roger's Brook. A survey of the brook was

made from Morton Street to Lupine Road, from which the trouble was found to be between the center of the Park and Bartlet Street. The grade of the brook between these points was found high, especially between Chestnut Street and Bartlet Street. It was also found that the willow tree in the rear of Mr. Nuckley's residence considerably cut down the cross sectional area of the brook, and retarded the flow; this was removed. The brook was given a gradual slope from Chestnut to Bartlet Streets to facilitate the flow, and relieve the back pressure at the culvert; if this proves to be insufficient, it is planned to lay a 30-inch pipe around the culvert to increase the carrying capacity at this point. The walls along the north side of the brook running from Chestnut Street were extended. From Whittier Court to Morton Street the abutters showed hearty cooperation by cleaning out that section of the brook which abutted their land.

With this work completed it was thought best to delay the spending of any more money until we first had seen the results of what had already been done. We would accordingly ask for the unexpended balance on this appropriation.

PHILIP L. HARDY
EDWARD SHATTUCK
ARTHUR T. BOUTWELL
WALTER I. MORSE
WILLIAM D. MCINTYRE

REDEMPTION OF BONDS

To redeem Water Loan	No. 3 due 1923	\$10000.00
	No. 4 due 1925	15000.00
	No. 5 due 1928	5000.00

WATER SINKING FUND

CR.

Balance Jan. 1, 1923	\$27410.00
Appropriation March, 1923	750.00
Interest on Deposit	966.69
	<hr/>
	29126.69
Redemption of No. 3, 1923	10000.00
	<hr/>
	\$19126.69

DR.

Andover National Bank	\$ 7495.67
Andover Savings Bank	11631.02
	<hr/>
	\$19126.69

To redeem Sewer Bonds, due 1928

CR.

Balance Jan. 1, 1923	\$23005.01
Appropriation March, 1923	1000.00
Interest on deposits	1052.75
	<hr/>
	\$25057.76
Balance Jan. 1, 1924	25057.76

DR.

SEWER LOAN DEPOSITS

Andover National Bank, Book No. 2	\$25057.76
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NOTE: In addition to the above bonds we have \$91,000.00
Serial Water Bonds and \$219,000.00 Serial Sewer Bonds.

	PHILIP L. HARDY
	WILLIAM D. McINTYRE
Examined, Feb. 6, 1924	ARTHUR T. BOUTEWLL
W. H. COLEMAN	EDWARD SHATTUCK
J. S. ROBERTSON	W. I. MORSE
H. SELLARS	<i>Sinking Fund Commission</i>

Auditors

Total Sinking Funds, \$44,184.45 on deposit. Verified.

SUPERINTENDENT'S REPORT

To the Board of Public Works:

GENTLEMEN:

I herewith submit the thirty-fifth annual report of the Water Department, the twenty-seventh of the Sewer Department, and the eleventh of the Highway and Park Departments, together with a brief summary of the work preformed in each department for the year ending December 31, 1923.

WATER DEPARTMENT

There has been added during the year 1923 to our main pipe lines 5040 feet of 6-inch C. I. pipe on Chandler Road at a cost of \$10,228.83, or about \$2.00 per foot, and 225 feet of 6-inch C. I. pipe on Carmel Street at a cost of \$417.00 or \$1.85 per foot. There have been laid by the Town in Shawsheen Village and paid for by the American Woolen Company, 7504 feet of 6-inch and 8-inch C. I. pipe. We have laid for Phillips Academy a 6-inch main from Salem Street past the new administration building, connecting the main on Chapel Avenue, which makes a circulating line. On this line two hydrants were installed. There are now 57.84 miles of water main in town. The following table gives a list of the streets on which main water pipe was laid during the year 1923, also the length and size of the pipe and the number of hydrants and valves.

Every hydrant has been examined, painted, oiled, greased, and packed; also pressures of many have been taken. The examination of these hydrants showed that there are 417 hydrants belonging to the town and 45 on private property, making a total of 462. It also showed that all the hydrants were in good working condition with the exception of two. There were also a few that leaked through the waste but this did not prevent their use during a fire. Now that this work has been done, there

PIPES, HYDRANTS, AND VALVES

<i>Names of Streets</i>	<i>Length of Pipe</i>	<i>Size</i>	<i>Hydrants</i>	<i>Valves</i>
Chandler Road	5040 ft.	6"	8	12
Carmel Street	225 ft.	6"	0	0
Cassimere Street	429 ft.	6"	1	2
Fletcher Street	550 ft.	6"	1	2
Fletcher St. to Binney St.	280 ft.	6"	0	2
Binney St.	550 ft.	6"	2	4
Shepley St.	452 ft.	6"	1	2
Riverina Rd.	244 ft.	6"	0	1
Kensington St.	220 ft.	6"	0	1
Argyle St.	425 ft.	6"	0	1
William St.	678 ft.	8"	1	4
Enmore St.	493 ft.	6"	0	1
Arundale St.	649 ft.	6"	1	2
Ayer St.	180 ft.	6"	0	1
Kenilworth St.	1079 ft.	6"	2	5
Tantallon Rd.	831 ft.	6"	1	2
Tantallon Rd. to York St.	300 ft.	6"	1	2
York St.	94 ft.	6"	0	1
Phillips Academy	1500 ft.	6"	2	5
Total, 1923	14219		21	50

should be no more trouble if proper care is taken in opening and closing the hydrants. The following pressures were taken in September when the pumps were running:—

LOCAL AND STATIC PRESSURE OF SOME OF THE WATER HYDRANTS

Abbot St.	
By Shorten's house	80 lbs.
By Wiss's house	65
Andover St.	
By Ewing's house	90
By Engine house	112
By Abbott Homestead	100
Argilla Rd.	
By Baker's house	100
By Strumpfman's house	85
Arundale St.	
Hydrant nearest Balmoral St.	120
Avon St.	
By Robertson's house	55
Ballardvale Rd.	
Corner Sunset Rock	110
By Roggee's house	90
Balmoral St.	
By the Garage	122
Bancroft Rd.	
Corner Main	60
By Couch's house	40
Bartlet St.	
Corner Chestnut	67½
By Gardner's house	80
Bellevue St.	
By Livingston's house	100
Brook St.	
By Sellars's house	85
Burnham Rd.	
Corner Dufton Rd.	112
Buxton Ct.	
Corner Lewis	85
Canterbury St.	
By American Woolen Company property	90
Center St.	
Corner Andover	105
Near end of line	80
Central St.	
By I. R. Kimball's house	90
By Hethrington's store	74
Chandler Rd.	
By Trauschke's house	70
By the Kasabian house	80

Chapel Ave.	
Corner Bartlet	65 lbs.
Chester St.	
By Greenwood's house	100
Chestnut St.	
By the Roach house	5
Corner Morton	50
Near Andover Press	65
Clark Rd.	
By Kibbee's house	92
Cuba St.	
Near the School	85
Dascomb Rd.	
By F. Abbott's house	70
Elm St.	
By the Free Church	65
Near end of line	47
Essex St.	
Near the Depot	100
Harding St.	
Corner High	93
Haverhill St.	
By Cheroubrier's house	112
Opposite Garage	117
Corner York	130
Corner Main	130
High St.	
Corner Burnham Rd.	82
Corner Haverhill	100
By Chadwick's house	100
High St. (Ballardvale)	
Corner Andover	98
Highland Rd.	
Near end of line	60
By Comeau's house	75
Near gymnasium cage	65
Lovejoy Rd.	
Near end of line	75
Lowell St.	
Near Pumping Station	95
Corner Lovejoy Rd.	87
By West Parish Church	65
Corner Chandler Rd.	82
By Playdon's greenhouse	110
Near the Post Office	130
Lupine Rd.	
By Smith's house	107
Main St.	
Near the Lawrence line	75
Near the Shawsheen River	95
By the Tyer Rubber Company Building	67

Corner Park	75 lbs.
Corner Punchard Ave.	62
Opposite Chapel Ave.	65
By Southworth's house	70
By Gould's house	97
By Knowles's house	135
Near end of line	135
Maple Ave.	
By Boddy's house	70
Corner Walnut Ave.	80
Marland St.	
Corner Tewksbury	98
Morton St.	
By Crawford's house	56
Near end of line	32
Orchard St.	
By LeBoutillier's	80
Osgood St.	
By Pillsbury's house	85
By Corliss's house	90
Near Osgood School	95
Phillips St.	
Corner Main	22
Near Williams Hall	52
Corner Abbot	75
Poor St.	
Corner Corbett	80
Porter Rd.	
By Dearborn's property	90
By Towle's house	70
By Garth's house	55
Prospect Hill Rd.	
By Bornemann's house	65
River St.	
First hydrant from Andover St.	115
Rocky Hill Rd.	
By Thomes's house	120
Salem St.	
Corner Highland Rd.	62
Corner Holt	53
Corner Stinson	60
By Collins's house	107
By Wright's house	100
School St.	
By Chapin's house	70
Corner Morton	52
Corner Main	36
Shawsheen Rd.	
Corner Brechin Terrace	100
By Cunningham house	85

Stevens St.	
Near the bridge	115 lbs.
Stinson St.	
Corner Vine	50
Corner Highland Rd.	27
Sunset Rock Rd.	
By Sanborn's house	110
By Barnes's house	100
By Donovan's house	80
Sutherland St.	
By American Woolen Company property	110
Tantallon Rd.	
Corner Haverhill	132
Tewksbury St.	
Near Railroad crossing	100
By Dumont's house	95
Union St.	
By Donald's house	100
Walnut Ave.	
Near Carmel	50
Washington Ave.	
.	52
Whittier St.	
Corner Elm	52
Wildwood Rd.	
By Millett's house	95
William St.	
Hydrant nearest Poor St.	95
Woburn St.	
By Mailoux's	75
Corner Andover	90
Wolcott Ave.	
By McTernen's house	52

The hydrants supplied by the low pressure service are painted black with a white top; those supplied by the high pressure service are painted black with a red top.

On July 25th the reservoir on Prospect Hill was cleaned out. The banks were washed with a hose and the bottom was brushed and flushed out. This work took five men from 9 a.m. to 3 p.m. There was one hydrant set in Andover Square and two on Lowell Street, one near the old Clark farm and one in the vicinity of the old Watson farm. All the gates have been checked up and also the house service boxes. We are now making duplicate books of all this work, as ordered by the fire underwriters. We have pumped at Haggett's Pond during the year 332,409,160 gallons, the largest amount ever pumped in a single year. The

plant was in operation every day during the year. The average consumption was 910,710 gallons daily and the average time of pumping 13 hours and 3 minutes daily. The greatest amount, namely 1,647,781 gallons for a single day, was pumped on November 13th. The water receipts for 1923 amounted to \$37,718.68, making \$5,887.30 more than the receipts for 1922. The station on Bancroft Road is still giving excellent results and is used about 35 hours per week.

The engineer's house is in need of repairs, and also the grounds at the pumping station. There is some town property which should be fenced in.

I would recommend for maintenance for 1924, \$33,500.00, to be divided as follows:

Salaries and labor	\$14,000.00
200 tons of coal	1,600.00
Engine and cylinder oil	300.00
Power, No. 1 station	8,000.00
Power, No. 2 station	1,500.00
Keeping horse and car	700.00
Repairs on steam plant	1,000.00
Tools	300.00
Repairs and regrading grounds	2,000.00
Fence on corner	750.00
Miscellaneous	1,500.00
Survey of water system	1,500.00
Two ceilings and wiring engineer's house	350.00
	<hr/>
Total	\$33,500.00

SERVICE PIPE

The number of applications in 1923 was 155, making a total of 2064.

In use January 1, 1923, 1800; put in, up to January 1, 1924, 150; 1950 in use January 1, 1924.

Meters in use January 1, 1923, 1745; meters set during 1923, 111; 1856 in use January 1, 1924.

I would recommend for Service Pipe for the year 1924, the sum of \$15,000.00, to be divided as follows:

Labor and salaries	\$4,000.00
Service pipe, brass goods	2,500.00
Meters	2,500.00
100 S. P. boxes	225.00
Trucking and Teaming	400.00
Service pipe, various sizes	4,000.00
Miscellaneous	1,375.00
Total	<u>\$15,000.00</u>

RECEIPTS

Service pipe and meters	\$19,942.76	
Water receipts	<u>37,718.68</u>	
	\$57,661.44	
Paid to Town Treasurer		
Water receipts	\$37,718.68	
Pipe account	<u>19,942.76</u>	
	\$57,661.44	<u>\$57,661.44</u>

SEWER DEPARTMENT

In 1923 the filter beds received general care and the new pump house was reconditioned. I would recommend for maintenance for 1924, \$6000.00, to be divided as follows:

Salaries	\$2000.00
Power	2500.00
Sinking Fund	1000.00
Miscellaneous	<u>500.00</u>
Total	\$6000.00

HOUSE CONNECTIONS

There were twenty-five applications received and twenty-four connections laid, making a total of 812 in use January 1, 1924.

COMMON SEWERS

The outfall sewer is the only main sewer laid this year by the town. A full report of this work will be found in the secretary's report. The expenditures on this work up to January 1, 1924, were \$189,908.48, of which the town spent \$149,596.73, and the city of Lawrence \$40,311.75.

EXPENDITURES

NAMES	WATER DEPARTMENT				SEWER DEPARTMENT				
	Mainte- nance	Service Pipe	Pipe Dist'n & Chand- ler Rd.	Totals	Mainte- nance	House Con- nections	Outfall Sewer	Totals	Grand Totals
Payrolls, labor and teams	\$11273.45	\$ 3194.01	\$ 8072.03	\$22539.49	\$2079.20	\$1144.82	\$ 289.60	\$ 3513.62	\$ 26053.11
Weston & Sampson							9450.00	9450.00	9450.00
Carfares	249.82			249.82	13.75		28.70	42.45	292.27
Boston and Maine	401.66	92.87	356.28	850.81		93.80	10303.43	10397.23	11248.04
U. S. C. I. Pipe			2702.20	2702.20			41681.35	41681.35	44383.55
Old Colony Trust Co.							325.00	325.00	325.00
George A. Higgins							9.00	9.00	9.00
Portland Stoneware Co.						336.20	30296.71	30632.91	30632.91
Builders Iron Foundry	59.41		614.88	674.29			1420.40	1420.40	2094.69
Cenedella & Co.						9.50	77750.73	77750.73	77750.73
P. L. Hardy	276.88	20.80		297.68			17.25	26.75	324.43
C. M. White							758.00	758.00	758.00
Lawrence Eagle							2.00	2.00	2.00
Lawrence Telegram							4.50	4.50	4.50
Dept. Public Works							1.00	1.00	1.00
City of Lawrence							80.91	81.90	81.90
Rensselaer Valve Co.			3113.57	3113.57			146.16	146.16	3259.73
Multiplex Mfg. Co.							96.25	96.25	96.25
Brightwood Mfg. Co.							99.61	99.61	99.61
J. F. McDonough			594.10	594.10	113.43		11444.34	11557.77	12151.87
Starkweather & Broadhurst							104.19	104.19	104.19
Andover Garage		29.25					30.96	154.56	262.87
Western Waterproof Co.	28.06		51.00	108.31	123.60		254.00	254.00	254.00
New Eng. Appliance Co.					7.69		711.13	718.82	718.82
Boston Pipe and Fitting Co.						94.50		94.50	94.50

NAMES	WATER DEPARTMENT			SEWER DEPARTMENT					
	Mainte- nance	Service Pipe	Pipe Dist'n & Chand- ler Rd.	Totals	Mainte- nance	House Con- nections	Outfall Sewer	Totals	Grand Totals
Boston-Lawrence Dispatch	18.86	.55		19.41					19.41
A. L. Cole Co.	10.20	3.00		13.20					13.20
Neptune Meter Co.	200.62	283.15		582.77					582.77
George A. Caldwell	32.50	26.94		59.44					59.44
Bride & Grimes	105.18	123.53		228.71					228.71
Chadwick Lead Co.		23.98		23.98					23.98
Eagle Oil & Supply Co.		2.85		2.85					2.85
Buchan & McNally	41.69	18.61		60.30					60.30
Franklin Fire & Chain Co.		5.14		5.14					5.14
Bingham Taylor		202.00		202.00					202.00
Union Meter Co.		116.00		116.00					116.00
N. E. T. & T.	350.24			350.24					350.24
Andover Press	322.85			322.85					322.85
Frost & Adams	3.83			3.83					3.83
Hersey Mfg. Co.	59.17			59.17					59.17
Worthington Pump Co.	85.92			85.92					85.92
B. L. McDonald	1174.99			1174.99					1174.99
F. L. Cole, rubber oilskins	76.80			76.80					76.80
Vacuum Oil Co.	491.84			491.84					491.84
C. A. Hill	14.64			14.64					14.64
George H. Snell	90.38			90.38					90.38
W. C. Crowley	1.85			1.85					1.85
Nat. Meter Co.	44.96			44.96					44.96
Gamon Meter Co.	6.12			6.12					6.12
Cross Coal Co.	1985.47			1985.47					1985.47
Youlden Smith & Hopkins	13.00			13.00					13.00
John J. McCarthy	14.97			14.97					14.97
Merrimac Boiler Co.	1084.05			1084.05					1084.05

E. T. Hethrington						40.50	3.87	3.87	3.87
Hiller & Co.						16.95	69.30	69.30	69.30
Joseph F. Cole						5.00	16.95	16.95	16.95
Andover Natl. Bank						48.30	5.00	5.00	5.00
B. L. Makepeace	14.73					20.00	48.30	48.30	48.30
Smart & Flagg	3.00					86.90	20.00	20.00	23.00
Butt & Butt						16.20	86.90	86.90	86.90
F. E. Dodge	308.84					6.65	16.20	16.20	16.20
W. I. Morse		139.40				24.00	8.30	8.30	456.54
Waldo Bros. & Bond Co.	151.25					71.25	24.00	24.00	24.00
Waterworks Equipment Co.	61.85	561.63			903.36	69.95	71.25	71.25	1687.49
John Shea						40.24	69.95	69.95	131.80
Self-Propelling Nozzle Co.						1426.14	40.24	40.24	40.24
Lawrence Gas Co.	1426.14					151.83	1.62	1.62	1427.76
Curry Bros. Oil & Supply	151.83					52.00	20.25	20.25	172.08
Queen & Gray						9.90	52.00	52.00	52.00
M. O'Mahoney						21.75	9.90	9.90	9.90
Trust, P. Academy	6.95					50.00	21.75	21.75	21.75
American Woolen Co.	19.50					66.79	50.00	50.00	50.00
R. L. Buchan		14.08				1160.21	66.79	66.79	66.79
Nat. Lead Co.						3007.39	1160.21	1160.21	1160.21
Donaldson Iron Co.						149.50	3007.39	3007.39	3007.39
W. J. Morrissey	80.00	50.50				66.33	149.50	149.50	149.50
Lyle Bros.	30.98	18.35				70.83	66.33	66.33	66.33
M. T. Stevens						559.60	70.83	70.83	70.83
Walworth Mfg. Co.	5.14	179.46				86.40	559.60	559.60	559.60
Gutterson & Gould, lead						1.50	86.40	86.40	86.40
Smith & Dove		2969.01				2969.01	1.50	1.50	1.50
Lead Lined Pipe Co.		999.42				999.42	2969.01	2969.01	2969.01
H. Mueller & Co.		26.91				34.44	999.42	999.42	999.42
American Express Co.	7.53					1497.11	34.44	34.44	34.44
Thomson Meter Co.	55.99	1441.12				209.81	1497.11	1497.11	1497.11
Pittsburgh Meter Co.	13.39	196.42				161.20	209.81	209.81	209.81
J. L. Morrison	152.50	8.70				138.76	161.20	161.20	161.20
Chapman Valve		138.76					138.76	138.76	138.76

NAMES	WATER DEPARTMENT			SEWER DEPARTMENT					
	Mainte- nance	Service Pipe	Pipe Dist'n & Chand- ler Rd.	Totals	Mainte- nance	House Con- nections	Outfall Sewer	Totals	Grand Totals
Garlock Packing Co.	16.69			16.69					16.69
Reuben R. Rief	80.25			80.25					80.25
Andover Coal Co.	39.40			39.40					39.40
James R. Barrie	3.50			3.50					3.50
Anderson & Bowman	13.65			13.65					13.65
Andover Battery Co.	2.00			2.00					2.00
Castner, Curran & Billett, coal	785.55			785.55					785.55
Lawrence Machine Co.	25.75			25.75					25.75
Sherman Envelope Co.	45.75			45.75					45.75
N. E. W. W. Association	6.00			6.00					6.00
Fire and Water	4.00			4.00					4.00
Richard Abbott, hay	68.10			68.10					68.10
W. H. Welch Co.	8.63			8.63					8.63
W. & C. Beck	1.50			1.50					1.50
H. A. Prescott . . . . .	.75			.75					.75
M. J. Doyle, express	10.25			10.25					10.25
Int. on Bonds (G. A. Higgins)	4862.50			4862.50					4862.50
Bonds	10000.00			10000.00					10000.00
	\$36983.30	\$10985.44	\$21221.01	\$69189.75	2889.13	\$1711.49	\$185307.86	\$189908.48	\$259098.23

SUMMARY COST OF CONSTRUCTION

WATER DEPARTMENT

DESIGNATION	<i>Approved Bills</i>	<i>Credits</i>	<i>Net Cost</i>	<i>Totals</i>
Office Fixtures				\$ 561.75
Telemeters				2290.15
Telephones				184.77
Teams				583.65
Pipe Distribution	\$21221.01	\$10936.07	\$10284.94	302813.48
Service Pipe	10985.44	8788.14	2197.30	38628.28
Water and Land				6687.23
Suction Pipe				1309.46
Reservoir				16985.82
Coal Shed				806.97
Grading Land				1739.12
Workshop				1271.88
Building Pumping Station .				9610.14
Pumping Plant				47933.54
Construction Expense . . .				9406.21
Tools	160.80		160.80	4352.85
Maintenance	21960.00	218.55	21741.45	
Interest and Bonds	14862.50		14862.50	
Total	\$69189.75	\$19942.76	\$49246.99	\$445165.30

SEWER DEPARTMENT

Sewer Mains	70225 ft.			
No. Filter Beds		28		
No. Sludge Beds		3		
Cost to Abutters			\$135361.74	} Jan. 1, 1924
Cost to Town			347460.84	
Total	70225 ft.	31	\$482822.58	

Lawrence outfall sewer 14,325 feet, or 2.71 miles.

COMPARATIVE STATISTICS, Approved to Jan. 1, 1924

JANUARY 1, 1924

Year	Received from water rates	Net cost of maintenance	Cost of pumping	Cost per million gal'ns		Received per million gallons	Gallons pumped	No. of service pipes in use	meters in use	No. of h'd'nts	Miles of main pipe
	Work commenced \$ 310638	.....	.....	by total maintenance	by cost of pumping	.....	6 months	46	..	16	.....
1889		2999 99	1776 21	.....	.....	.....	24,911,445	309	80	163	20.50
1890	5349 32	3399 93	1806 93	52 85	27 97	82 81	64,595,597	462	122	165	21.50
1891	5977 41	3491 22	2185 83	40 77	25 53	68 42	85,618,190	542	171	174	22.37
1892	7647 95	3792 56	2408 20	36 42	23 13	73 46	104,123,285	601	204	178	23.50
1893	8378 44	4514 47	3354 04	38 31	28 47	71 27	117,847,305	654	237	178	23.53
1894	8434 15	4380 13	3151 33	37 32	26 87	71 81	117,354,950	706	278	180	24.00
1895	9052 31	4627 53	2557 61	37 47	20 71	78 79	123,476,542	752	326	184	24.12
1896	*8011 87	4336 58	2383 71	37 67	20 71	69 61	115,094,527	789	486	184	24.16
1897	7792 40	3662 43	2196 31	32 33	19 38	68 78	113,287,775	819	571	193	24.91
1898	9376 29	4471 04	2656 42	31 21	19 24	65 45	143,260,253	845	616	194	25.12
1899	10668 57	4915 23	3158 50	33 07	21 25	71 78	148,618,935	876	641	196	25.83
1900	*8941 83	7955 34	3430 35	45 44	19 59	51 00	175,062,920	897	670	196	25.84
1901	11805 21	5787 44	3035 47	40 59	25 63	100 01	118,031,451	934	702	205	29.69
1902	11563 79	7389 44	2922 36	55 52	21 96	86 89	133,085,521	958	722	219	30.17
1903	11818 53	6378 96	3004 34	44 25	20 84	81 98	144,164,563	981	757	221	30.49
1904	12409 79	7228 82	3426 98	44 03	20 87	75 60	164,150,879	1013	791	223	30.95
1905	13516 47	8121 39	3054 09	45 39	17 29	76 48	176,117,579	1036	813	224	31.03
1906	17267 86	8112 47	4825 63	33 34	19 94	75 48	242,025,757	1060	848	227	31.35
1907	14908 89	7419 65	3750 29	39 52	19 97	79 41	187,750,372	1101	884	257	35.22
1908	1640 21	7499 95	3967 72	36 96	19 55	81 16	202,885,685	1147	926	273	38.07
1909	17613 66	8378 32	4234 61	36 50	18 50	76 93	228,939,882	1187	977	290	40.81
1910	18515 99	7974 79	3584 62	39 21	17 62	91 03	203,401,371	1245	1023	321	44.34
1911	19687 47	8117 57	3583 45	39 58	17 48	95 99	205,097,460	1304	1081	344	46.99
1912	22739 88	8412 89	4471 18	36 84	19 58	96 58	228,344,927	1353	1146	351	47.70
1913	19614 00	10306 80	4434 65	43 86	18 86	83 47	234,973,550	1405	1195	364	49.64
1914	22451 01	9982 98	4464 45	42 49	18 55	93 32	†240,599,178	1465	1262	369	50.08
1915	23496 87	11998 60	4842 20	46 67	21 91	94 02	†220,945,880	1492	1290	377	51.19
1916	24780 82	11538 26	5460 42	52 95	25 06	113 72	†217,894,123	1503	1311	377	51.19
1917	27053 04	15838 48	10092 80	58 93	37 56	100 67	†268,733,008	1470	1328	378	51.19
1918	23864 58	18257 99	7093 30	83 64	37 72	91 46	†218,279,797	1521	1370	378	51.19
1919	31416 47	19924 11	9949 64	78 23	39 06	81 08	†254,727,887	1594	1460	378	51.19
1920	28013 36	17745 39	9083 83	89 65	41 44	127 80	†219,172,467	1557	1562	388	52.44
1921	31831 38	22627 77	8788 98	86 32	33 54	121 46	262,098,700	1800	1745	414	55.15
1922		21729 12	10133 57	65 30	30 48	113 47	332,409,160	1950	1856	462	57.84
1923											

* Preliminary figures. † No allowance for sludge

HIGHWAYS AND PARKS

To the Board of Public Works:

GENTLEMEN:—

I submit for your approval the eleventh annual report of the Highway Department for the year ending December 31, 1923.

Our work for the year 1923 started on December 29, 1922, the day of a big snowstorm, which came in the first week of the year. The following table gives the snowfall which was taken care of with the 1923 appropriation.

Dec. 1922	Jan. 1923	Feb. 1923	March 1923	April 1923	Nov. 1923	Dec. 1923
29 8"	4 13"	1 1/2"	7 8"	16 1/4"	9 1/8"	24 1"
	6 2 1/2"	7 3"	10 1/2"			25 1/4"
	8 10 1/2"	10 2 1/2"	12 2"			28 3 1/2"
	10 5"	13 6"	14 1 1/4'			31 3/4"
	12 12"	14 1 1/4"	31 1/4"			
	15 2 1/2"	27 3/4"				
	22 1/4"	28 1"				
	24 7"					

There were 20 1/2 inches of snowfall in November and December, 1922, making in all a total of 114 3-8 inches. Last winter was one of the worst, and it was almost impossible to keep the walks clear and many of the roads were unfit for travel. This winter we are better prepared than ever, having a State truck equipped with a plough, as well as three town ploughs which can be attached to trucks in short order. With the above, we are in hopes of keeping all the main highways opened for auto travel at all times. The roads in the outlying districts will be taken care of as soon as possible after the main arteries are opened. On April 5th considerable rain fell, which caused several wash-outs. These were repaired with ashes and gravel.

We started patching holes in our tarvia roads the week of April 23rd, and blanketing the same the week of May 7th. This

work was completed around June 1st. In blanketing our streets this year, 25,119 gallons of Tarvia and 8,050 gallons of asphalt oil were used. About 890 yards of sand were required to cover this and 100 yards were placed in the shed for sanding sidewalks this winter. There were used for patching roads, sidewalks, and gutters 35 barrels of K. P., a cold patch which is mixed with sand or pea stone. Chestnut Street, Washington Avenue, Lupine Road, and several small places such as around the depot were scarified and given a very heavy coat of 45% asphalt oil which worked out very well. We scarified Andover Street from River Street to Woburn Street, put on some gravel as a binder and then covered it with oil. There has been ashes put on the following streets: High Street, Carmel Street, Poor Street, Highland Road, Ballardvale Road, Hidden Road, Argilla Road, Wildwood Road, Jenkins Road, River Road, Haggett's Pond Road, Chandler Road, High Plain Road, Corbett Street.

Many roads were scraped this year and considerable good work has been accomplished. Mr. Elmer Conkey did most of the scraping and dragging. Many old stone culverts, which had fallen in and were stopping the flow of water, were replaced by corrugated pipe culverts. There are still many old culverts which will have to be replaced by new corrugated culverts. These are mostly in the outlying districts.

In Ballardvale 534 loads of gravel were used in repairing the roads. The Fire Department team was used and also help from the Vale. The work in this section was looked after by Mr. Haggerty. The work on Andover street was quite extensive, so our regular men were sent to do this. The steam roller was also used on this job. This winter there has been a new plough bought for this section of the town.

Sidewalk work totaling 901 square yards has been done on Shawsheen Road and Stevens Street; also 171 yards of coating put on in several places and several driveways and gutters have been repaired, totaling 443 square yards. One hundred and sixty feet of curbing were set on High Street. The above work was done by contractor W. F. Duffee for the sum of \$2047.65. There is still considerable sidewalk and gutter work to be done. They are continually washing out and need to be filled with a tar material. When a road is built it should always be borne in

mind that considerable money is saved by curbing both sides of the road. When this is done there is very little chance of the road's being washed out.

William Street was built by the American Woolen Company in the late fall of 1921 and the frost got into it, causing it to break up. To save the road, it was scarified and brought to grade with broken stone and then given a 2-inch topping of Warrenite. This was done by the Thomas G. Jewett, Jr., Construction Company for the sum of \$4000.00, and was guaranteed for five years.

Shawsheen Road was curbed from the village center to the top of P. D. Smith's Hill on one side, and from Stevens Street to near Lincoln Street on the other side. This 3160 feet of curbing which was set by contract at a price of 50 cents per foot. A catchbasin was installed, the culverts were cleaned out and the sewer manholes slightly raised. We sub-graded the road and intended to build same, but found it impossible to get the stone and labor. On this account, bids were asked and M. McDonough & Co. of Swampscott, Mass., was the successful bidder at \$1.50 per square yard. There were 7061 square yards built at this price, which is much lower than the town could do it.

Under a special appropriation, sidewalks were built in front of the Musgrove Building and from Champion's corner to Miller's Shoe Store. The poles were not removed until the cold weather set in, so a few squares where these poles set will not be filled in until the weather permits. There still remains on this job an unexpended balance of \$1160.52, which I hope will take care of the sidewalk to Chestnut Street.

I would recommend for Highway maintenance the same as last year, \$45,000.00, to be divided as follows:

Labor and teaming	\$15,000.00
Blanketing streets	3,250.00
Oiling streets	500.00
Sidewalk work	3,000.00
Gravel and ashes	9,500.00
Snow	5,250.00
Drain	2,000.00

Amount carried forward

\$38500.00

Amount brought forward

\$38500.00

Team and car	1,000.00
Bridges	1,000.00
Catchbasins and culverts	2,000.00
Street signs	500.00
Miscellaneous	2,000.00
Total	<u>\$45,000.00</u>

Spent on snow to February 4, 1924, \$4176.97.

The following highway construction is recommended
for 1924:

Shawsheen Road, 7000 yds.	\$12000.00
Stevens Street, 6000 yds.	12000.00
Lowell Street, 4200 yds.	10500.00
Elm Street, 9500 yds.	14250.00
Haverhill Street (State, County and Town)	3000.00
Abbot Street, 3120 yds.	6000.00
Curb on Main Street, Library to Pearson St.	1200.00
Curb on Park Street to Florence; also sidewalk	2000.00
Gutter work	2000.00
	<u>62,950.00</u>

Recommended for Highway construction for 1924 40000.00

FINANCIAL STATEMENT

Appropriation March, 1923

Highway Dept., Maintenance	\$45000.00
Construction	30000.00
Credits	626.50
Total	<u>\$75,626.50</u>

Expenditures

Maintenance	\$27641.19
Construction	28623.64
Sidewalks	1000.00
Snow	17369.35
Tools	218.42
Drains	714.44
Balance	32.46
Total	<u>\$75626.50</u>

ROGERS BROOK

Special appropriation	\$2500.00
Approved bills	1514.80

Balance	\$985.20
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MAIN STREET SIDEWALK (SPECIAL)

Appropriation March, 1923	\$3000.00
Approved bills	1839.48

Balance	\$1160.52
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HAVERHILL STREET

Special appropriation	\$30000.00
Credit from State	8000.00
Credit from County	4900.00

Total	\$42900.00
Approved bills	37405.26

Balance	\$5494.74
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MAIN STREET (SPECIAL)

Appropriation March, 1923	\$14157.15
Balance January 1, 1923	835.55
Credits	304.74

Approved bills	\$15297.44
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PARK DEPARTMENT

Appropriation March, 1923	\$1200.00
Approved bills	1186.71

Balance	\$13.29
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HIGHWAY EXPENDITURES, 1923

NAMES	Maintenance	Construction	Sidewalks Tools Drains	Snow	Haverhill St. Special	Main St. Special	Total
Payrolls, labor and teams	\$12916.82	\$ 3552.29		\$15025.04		\$	\$ 31494.15
J. L. Morrison	75.20	58.52		169.65			303.37
W. I. Morse, supplies	246.54	32.06	76.96				355.56
Boston and Maine R. R.	69.28	10.34	14.21	20.28			114.11
M. McDonough, contractor	6.00	10590.00				\$15297.44	25893.44
Anderson & Bowman, repairs	103.60	40.10					143.70
John Shea, grain and straw	213.50	110.72		12.60			336.82
Treat Hardware			10.50				10.50
Merger Mfg. Co.			255.20				255.20
New England Metal Culvert Co.			472.03				472.03
C. J. McCarthy, tools			88.11				88.11
Buffalo Steam Roller Co.			42.85				42.85
W. F. Duffee		1047.65	1000.00				2047.65
J. W. Barnard Est., fence				39.19			39.19
G. W. Disbrow				67.00			67.00
John Brady	2035.50			200.00			2235.50
Good Roads Machine Co., plows	7.50			727.65			735.15
John Kaza, labor				36.00			36.00
Shawsheen Garage				384.38			384.38
Andover Fire Department				121.50			121.50
J. F. McDonough	153.40			259.35			412.75
Henry Miller, rubber boots	4967.01	1858.55		22.50			7084.91
American Woolen Co.	6.00			88.01			94.01
Hood Farm, snow	25.50			169.20			194.70
Frank Sherry				12.00			12.00
John J. Crowley				15.00			15.00
S. C. Walker, gravel		23.20					23.20
J. E. Pitman, stock	27.66	16.56					44.22
Dr. Moulton, horses		10.75					10.75
Barrett Mfg. Co., Tarvia	3500.01	439.02					3939.53
Ada Buchan	43.25	80.50					123.75
Waldo Bros. & Bond Co.	191.10	1.35					192.45
Smith & Dove	2.00	17.19					19.19

McKinney Bros., horse	212.00	200.00				412.00
Samuel Ramsden, gravel		83.60				83.60
H. E. Fletcher, curbing		3065.74				3065.74
T. G. Jewett	119.00	4424.52			\$37402.26	41945.78
Essex County					3.00	3.00
John Franklin		95.00				95.00
P. L. Hardy	613.43	2613.38				3226.81
H. I. Dallman	41.18	21.69				62.87
Lebanon Machine Co.		42.50				42.50
Andover Coal Co.	88.11	111.90				200.01
Andover Garage		76.51				76.51
F. L. Cole, rubber boots	17.75					17.75
Universal Road Machine Co.	3.72					3.72
P. J. Hannon, hay	247.83					247.83
Mass. Highway Assn.	4.00					4.00
W. J. Reynolds	1.75					1.75
H. A. Prescott	61.90					61.90
Henry Clark	1.50					1.50
George Morin	4.75					4.75
R. L. Buchan	8.50					8.50
Tyer Rubber Co.	2.21					2.21
C. A. Hill . . . . .	.75					.75
Carrie M. Barker, gravel	103.20					103.20
Andover Press	1.90					1.90
J. H. Campion . . . . .	.60					.60
Frank E. Ward	47.90					47.90
Patrick Dowd	24.00					24.00
Curry Bros., oil supply	12.00					12.00
Alden Spears Co., oil	951.48					951.48
Essex Trap Rock Co.	66.51					66.51
Gray & Kendall	1.50					1.50
B. L. McDonald	297.00					297.00
Andover Taxi	4.00					4.00
Dr. P. W. Blake	2.00					2.00
Anglo Saxon Co.	72.85					72.85
M. J. Stack	25.00					25.00
A. M. Colby	12.00					12.00
	\$27641.19	\$28623.64	\$1959.86	\$17369.35	\$37405.26	\$15297.44
						\$128296.74



TOWN OF ANDOVER, MASS.

SHOWING WATER MAINS
and HYDRANTS
Water Mains and Hydrants on Private Property
shown in only a few places.

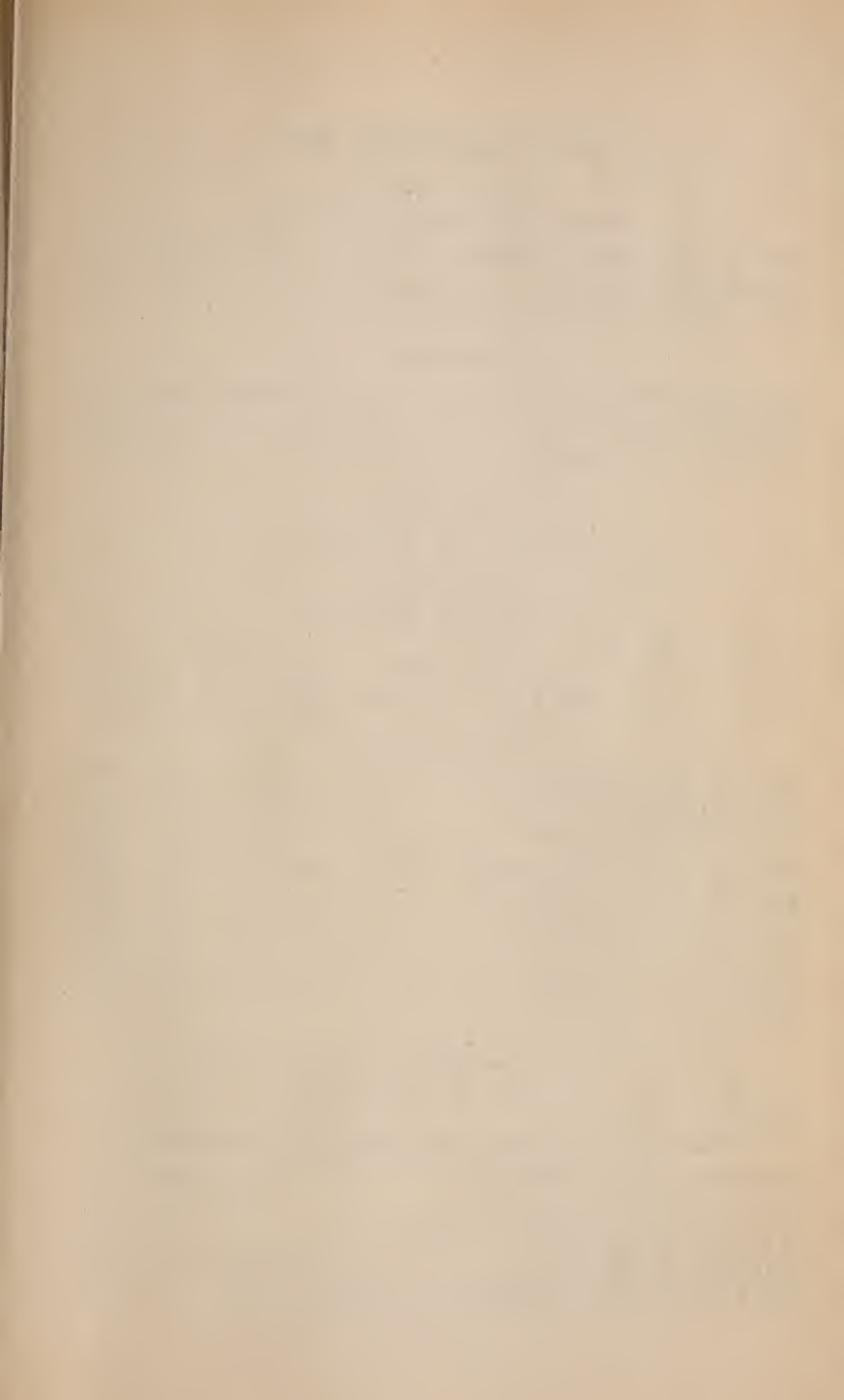
JANUARY 1, 1924

— Pipes supplied by High Service
— " " " Low "

Scale, 2" = 1 mile

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TOWN OFFICERS, 1924

Selectmen and Overseers of the Poor

FRANK H. HARDY, <i>Chairman</i>	Term expires 1926
CHARLES BOWMAN	" " 1927
ANDREW McTERNEN, <i>Secretary</i>	" " 1925

Assessors

FRANK H. HARDY, <i>Chairman</i>	Term expires 1926
CHARLES BOWMAN	" " 1927
ANDREW McTERNEN, <i>Secretary</i>	" " 1925

Town Clerk

GEORGE A. HIGGINS

Town Treasurer

GEORGE A. HIGGINS

Tax Collector

WILLIAM B. CHEEVER

School Committee

ROY H. BRADFORD	Term expires 1925
RAYMOND S. BARTLETT	" " 1925
W. DUDLEY YATES	" " 1925
DR. W. DACRE WALKER	" " 1925
FREDERICK E. CHEEVER	" " 1926
ERNEST A. JOHNSON	" " 1926
THAXTER EATON	" " 1927
MARY W. FRENCH	" " 1927
DAVID R. LAWSON	" " 1927

Superintendent of Schools

HENRY C. SANBORN

Board of Public Works and Sinking Fund Commission

ARTHUR T. BOUTWELL	Term expires 1925
EDWARD SHATTUCK	" " 1925
WALTER I. MORSE	" " 1926
PHILIP L. HARDY	" " 1927
WILLIAM D. McINTYRE	" " 1927

Superintendent of Water, Sewer Department, Highways and Parks

FRANK L. COLE

Chief of Fire Department

CHARLES F. EMERSON

Board of Health

CHARLES E. ABBOTT, M.D.	Term expires	1925
BANCROFT T. HAYNES	" "	1926
FRANKLIN H. STACEY	" "	1927

Chief of Police

FRANK M. SMITH

Constables

JAMES NAPIER	Term expires	1925
FRANK M. SMITH	" "	1925
GEORGE N. SPARKS	" "	1925

Trustees of Memorial Hall Library

E. KENDALL JENKINS	Term expires	1925
REV. FREDERICK A. WILSON	" "	1926
FREDERIC S. BOUTWELL	" "	1927
NATHAN C. HAMBLIN	" "	1928
PHILIP F. RIPLEY	" "	1929
ALFRED E. STEARNS	" "	1930
BURTON S. FLAGG	" "	1931

Trustees of Punchard Free School — Terms expire 1925

FREDERIC S. BOUTWELL	JOHN H. CAMPION
MYRON E. GUTTERSON	HARRY H. NOYES
EDMOND E. HAMMOND	

Auditors

JOHN S. ROBERTSON	LOUIS S. FINGER
HARRY SELLARS	

Trustees of Cornell Fund

CHARLES N. MARLAND	Term expires 1925
JOHN C. ANGUS	" " 1926
DR. WILLIAM D. WALKER	" " 1927

Superintendent of Moth Department

EDWARD H. BERRY

Tree Warden

EDWARD H. BERRY

Moderator of Town Meetings

ALFRED E. STEARNS

Registrars of Voters

SAMUEL P. HULME	JOHN F. HURLEY
PATRICK J. SCOTT	GEORGE A. HIGGINS, <i>Clerk</i>

Trustees Spring Grove Cemetery

WALTER I. MORSE	DANIEL H. POOR
FRED E. CHEEVER	FRED A. SWANTON
EVERETT M. LUNDGREN	DAVID R. LAWSON
JOHN W. STARK	

Street Lighting Committee

WALTER H. COLEMAN	HENRY J. GARDNER
FREDERIC G. MOORE	JAMES C. SOUTER
FRED G. CHENEY	

Finance Committee

HENRY A. BODWELL, <i>Chairman</i>	WILLIAM C. CROWLEY
JOHN C. ANGUS, <i>Secretary</i>	CHESTER W. HOLLAND
IRVING SOUTHWORTH	GEORGE H. WINSLOW
GEORGE L. AVERILL	

TOWN WARRANT

THE COMMONWEALTH OF MASSACHUSETTS

ESSEX, ss: To either of the Constables of the Town of Andover, GREETING:

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in elections and in town affairs to meet and assemble at the designated polling places in Precincts One, Two, Three and Four, viz: The Town House in Precinct One; the Old School House, Ballardvale, in Precinct Two; the Boys' Club House, Shawsheen Village, in Precinct Three; and the Phillips Club House, School Street, in Precinct Four, in said Andover, on MONDAY, THE THIRD DAY OF MARCH, 1924, at 6 o'clock a.m., to act on the following articles:

Article 1. — To elect a Moderator for one year, Town Clerk for one year, Treasurer for one year, Collector of Taxes for one year, one member of the Board of Selectmen for three years, one member of the Board of Assessors for three years, three members of the School Committee for three years, one member of the School Committee for two years (to fill vacancy), two members of the Board of Public Works for three years, one member of the Board of Health for three years, three Auditors of Accounts for one year, three Constables for one year, one Trustee of Memorial Hall Library for seven years, one Tree Warden for one year and all town officers required by law to be elected by ballot. Also to take action on the following question: Shall licenses be granted for the sale of certain non-intoxicating beverages in this town?

All to be voted for on one ballot. The polls will be open from 6 o'clock a.m. to 5 o'clock p.m.

After final action on the preceding Article one, the said meeting shall stand adjourned by virtue of Section 20, Chapter 39, of the

General Laws, to Monday, March 10th, at 1.30 o'clock p.m. at the Town Hall, then and there to act upon the following articles, namely:

Article 2. — To elect all other officers not required by law to be elected by ballot.

Article 3. — To determine what sums of money shall be appropriated for Almshouse Expenses, Relief out of Almshouse, Aiding Mothers with Dependent Children, Board of Health, Brush Fires, Fire Department, Hay Scales, Highway Department Insurance, Interest, Memorial Hall Library, Memorial Day, Post 99, G. A. R., Miscellaneous, Parks and Playsteads, Police, Printing, Election and Registration, Essex County Tuberculosis Hospital Maintenance, Public Dump, Retirement of Veterans, Reserve Fund, Redemption of Water, Sewer, High School, Main Street, Shawsheen Bridge and Shawsheen School Bonds, Schools, Sewer Maintenance, Sewer Sinking Funds, Soldiers' Relief, Spring Grove Cemetery, State Aid, Street Lighting, Town Officers, Town House, Tree Warden, Moth Department, Water Maintenance, Construction, Andover Post No. 8, American Legion, and other town charges and expenses.

Article 4. — To see if the Town will vote to raise and appropriate the sum of seventy-one thousand three hundred ninety-six dollars and thirteen cents (\$71,396.13) levied by the County Commissioners of Essex County under Chapter 429 of the Acts of 1923 for the construction of the Tuberculosis Hospital at Middleton and authorize the treasurer to borrow any or all of the said sum or take any action relative thereto.

Article 5. — To see if the Town will authorize the Board of Public Works to extend the water main from the Pumping Station, Lowell Street, to Etalo Belmessiere's residence and appropriate the sum of twenty thousand (\$20,000.) dollars therefor, on petition of W. I. Livingston and others.

Article 6. — To see if the Town will authorize the Board of Public Works to extend the water main from the dead end at the residence of William F. Trauschke along North Street as far as the North School at the corner of North Street and River Road and appropriate the sum of twenty thousand (\$20,000.) dollars therefor, on petition of George Lee and others.

Article 7. — To see if the Town will authorize the Board of

Public Works to extend water service on Corbett Road from the point in said road where such service now ends to the main entrance of the Sacred Heart Cemetery, and to appropriate therefor the sum of six thousand (\$6000.) dollars, on petition of Edward Topping and others.

Article 8. — To see if the Town will appropriate the sum of four thousand (\$4000.) dollars to lay a six-inch water main on North Street to the home known as the Brown Place, and then to the home of Edward Rogers on Chandler Road, on petition of George F. Parker and others.

✓ Article 9. — To see if the Town will vote to accept as a part of its sewerage system a sewer on Poor Street from a point beginning at Lowell Street, and extending to a manhole at the junction of William Street, a distance of 1308 feet and authorize the assessment of betterments upon estates benefited by same, according to plan of John Franklin, C. E., dated December 8th, 1923, and appropriate the sum of \$5341.00 to reimburse the American Woolen Co. for the cost of constructing the same in case of said acceptance, on petition of the Board of Public Works.

Article 10. — To see if the Town will authorize the building of a sewer, beginning at the terminus of the present sewer on Poor Street and extending a short distance on Magnolia Avenue, to a point near the Shawsheen School, an entire distance of about 300 feet and appropriate the sum of \$2000.00 for its construction and accept the same as a part of the sewerage system, on petition of the Board of Public Works.

Article 11. — To see if the Town will authorize the Board of Selectmen to sell to the American Woolen Company for fifteen hundred (\$1500.00) dollars, the land owned by the town, which was formerly used for its filtration plant, and authorize the Selectmen to convey the said land by a proper deed or deeds in behalf of the town, the Selectmen to retain and reserve for the Town such rights of way as may be necessary or advisable for the Town to hold, on petition of the Board of Public Works.

Article 12. — To see if the Town will accept the provisions of Sections 42, 43 and 44 of Chapter 48 of the General Laws relating to the establishment of a fire department under the control of an officer to be known as the Chief of the Fire Department, on petition of the Selectmen.

Article 13. — To see if the Town will appropriate the sum of sixty-five hundred (\$6500.00) dollars to purchase a lot of land containing about seventeen (17) acres, lying between Spring Grove Cemetery and Porter Road, on petition of the Trustees of Spring Grove Cemetery.

Article 14. — To see if the Town will vote to construct a granolithic sidewalk on the North and South side and in front of the Town Hall, also a reinforced granolithic driveway in front of said building and appropriate the sum of twenty-five hundred (\$2500.) dollars therefor, on petition of the Board of Selectmen.

Article 15. — To hear and act on the report of the War Memorial Committee.

Article 16. — To see if the Town will appropriate the sum of \$2000. for the collection and disposal of garbage, and if the Town believes that the collection and disposal should be a self sustaining proposition, to see if the Town will authorize the Board of Selectmen to put such a plan in operation under such regulations, based upon the actual cost of the service and no more, as may be justified in order to make the service effective, on petition of Madeleine B. Francke and others.

Article 17. — To see if the Town will accept Section 12 of Chapter 40 of the General Laws which reads as follows:

“A Town which accepts this section, or has accepted corresponding provisions of earlier laws, by a two-thirds vote at an annual meeting, may purchase or lease land, and erect, alter, enlarge, repair and improve buildings for public baths and wash houses, either with or without open drying grounds, and may make open bathing places, provide them with the requisite furniture, fittings and conveniences and provide instruction in swimming. Such Towns may establish rates for the use of such baths and wash houses, and appoint officers therefor and may make by-laws for the government of such officers, and authorize them to make regulations for the management thereof, and for the use thereof by non-residents of said Town,” and also appropriate the sum of two thousand (\$2000.) dollars if said section is accepted, for the purpose of establishing and maintaining swimming baths at Pomp’s Pond, on petition of John F. O’Connell and others.

Article 18. — To see if the Town will vote to appropriate the

sum of five thousand (\$5000.) dollars to purchase a Triple Combination Pump, Chemical Tank, Hose Body, fully equipped, mounted on Reo Speed Wagon Chassis, on petition of the residents of Ballardvale, same to be placed in the Ballardvale Fire Engine House.

Article 19. — To see if the Town will raise and appropriate forty-five hundred (\$4500.) dollars to erect bleachers and to provide playground accessories for the Playstead, to be expended as the Town may direct, on petition of Andover Post, No. 8, American Legion, and others.

Article 20. — To see if the Town will raise and appropriate a sum not exceeding three thousand (\$3000.) dollars for the installing of a new twenty (20) ton scale, on petition of Harry H. Remick and others.

Article 21. — To see if the Town will accept as a town way, as laid out by the Selectmen, and shown on plan filed with the Town Clerk, a street located on the northerly side of Chestnut Street, about one hundred and twenty-two feet easterly of land of Burt and running northerly to Summer Street, on petition of Llewellyn D. Pomeroy and others.

Article 22. — To see if the Town will vote to change the name of that part of Poor Street, running from Main Street southwesterly to Corbett Road, to Oxford Street, on petition of George H. Winslow and others.

Article 23. — To see if the Town will vote to change the name of that part of Poor Street extending from Main and Lowell Streets northerly to Corbett Road, to Warwick Street, also to change the name of Magnolia Avenue to Warwick Street, combining these two streets under the same name, on petition of George H. Winslow and others.

Article 24. — To see if the Town will place a Fire Alarm Box at the corner of Ballardvale Road and Woburn Street and appropriate a sum of money therefor, on petition of John Colbath and others.

Article 25. — To see if the Town will vote to appropriate the sum of \$300.00 as its apportionment toward the erection of a sixty-foot steel forest fire observation tower on the summit of Prospect Hill by the Division of Forestry of Massachusetts, as authorized by Section 5, Chapter 40 of the General Laws.

Article 26. — To see if the Town will vote to release any rights acquired by it by virtue of an oral agreement made between the Board of Public Works and Maurice J. Curran for the laying and maintenance of sewer pipes across the Roger Sweeney Field, and to authorize the Board of Public Works through its chairman to execute such release in behalf of the Town, on petition of the Board of Public Works.

Article 27. — To see if the Town will vote to discontinue that part of Whittier Street between the Park and School property, a distance of 583 feet from Bartlet Street to the junction of Whittier Court and Whittier Street, so that this may become a part of the Park System, on petition of the Board of Public Works.

Article 28. — To determine the method of collecting the taxes for the ensuing year.

Article 29. — To authorize the Town Treasurer to hire money for the use of the town in anticipation of the revenue of the current financial year, with the approval of the Selectmen.

Article 30. — To determine what disposition shall be made of unexpended appropriations.

Article 31. — To act upon the report of the Town Officers.

Article 32. — To transact any other business that may legally come before the meeting.

And you are directed to serve this warrant by posting attested copies and publication thereof, seven days at least before the time of said meeting as directed by the By-Laws of the town.

Hereof fail not and make return of this warrant with your doings thereon, at the time and place of said meeting.

Given under our hands this nineteenth day of February, A.D. 1924.

FRANK H. HARDY
CHARLES BOWMAN
ANDREW McTERNEN

Selectmen of Andover

Andover, March 3, 1924.

ESSEX, SS.

Pursuant to the foregoing warrant, I, the subscriber, one of the Constables of the Town of Andover, have notified the inhabitants of said town to meet at the time and places and for the purposes stated in said warrant by posting a true and attested copy of the same on the Town House, on each Schoolhouse and in no less than five other public places, where bills and notices are usually posted, and by publication in the *Andover Townsman*. Said warrants have been posted and published seven days.

FRANK M. SMITH, *Constable*

ANNUAL TOWN MEETING, MARCH 3, 1924

At a legal meeting of the inhabitants of the Town of Andover qualified to vote in town affairs convened in Precincts One, Two, Three and Four in said Andover on Monday the Third day of March, 1924, at six o'clock in the forenoon, agreeably to the requirements of the foregoing warrant, Took up Article One and proceeded to vote for Town Officers and on the License question.

The ballot boxes were found to be empty and registered 0000. The polls opened at 6 o'clock a.m. and closed at 5 o'clock p.m. The total number of ballots cast was 1903, viz.:

Precinct One 1119, Precinct Two 205, Precinct Three 325, Precinct Four 254.

The result of the balloting was as follows:

MODERATOR — One Year:

Precincts

1	2	3	4		
847	157	280	213	Alfred E. Stearns	1497
		1		John Traynor	1
272	49	44	41	Blanks	405

TOWN CLERK — One Year

826	167	279	221	George A. Higgins	1493
293	38	46	33	Blanks	410

TOWN TREASURER — One Year:

789	163	274	214	George A. Higgins	1440
330	42	51	40	Blanks	463

SELECTMAN — Three Years:

458	108	169	120	Charles Bowman	855
253	50	32	78	Walter H. Coleman	413
372	44	114	48	James C. Souter	578
36	3	10	8	Blanks	57

ASSESSOR — Three Years:

446	104	168	123	Charles Bowman	841
262	46	37	78	Walter H. Coleman	423
363	44	111	45	James C. Souter	563
48	11	9	8	Blanks	76

COLLECTOR OF TAXES — One Year:

819	163	290	217	William B. Cheever	1489
300	42	35	37	Blanks	414

SCHOOL COMMITTEE — Three Years:

760	134	238	201	Thaxter Eaton	1333
689	127	241	201	Mary O. French	1268
727	129	261	194	David R. Lawson	1311
			1	V. D. Harrington	1
1181	215	235	165	Blanks	1796

SCHOOL COMMITTEE — Two Years (*to fill vacancy*):

721	138	282	200	Ernest A. Johnson	1341
398	67	43	54	Blanks	562

TRUSTEE OF MEMORIAL HALL LIBRARY — Seven Years:

765	143	264	215	Burton S. Flagg	1387
354	62	61	39	Blanks	516

BOARD OF PUBLIC WORKS AND SINKING FUND COMMISSION — Three Years:

777	141	258	204	Philip L. Hardy	1360
683	162	238	189	William D. McIntyre	1292
778	107	154	115	Blanks	1154

BOARD OF HEALTH — Three Years:

748	144	263	194	Franklin H. Stacey	1349
371	61	62	60	Blanks	554

AUDITORS OF ACCOUNTS — One Year:

746	136	242	205	Louis S. Finger	1329
795	142	240	196	John S. Robertson	1373
740	140	249	197	Harry Sellars	1326
1076	197	244	164	Blanks	1681

CONSTABLES — One Year:

687	132	240	185	James Napier	1244
698	141	254	183	Frank M. Smith	1276
722	154	252	191	George N. Sparks	1319
1250	188	229	203	Blanks	1870

TREE WARDEN — One Year:

739	147	264	204	Edward H. Berry	1354
			1	E. Powers	1
380	58	61	49	Blanks	548

Shall Licenses be granted for the sale of certain non-intoxicating beverages in this town?

366	60	117	62	Yes	605
484	95	156	145	No	880
269	50	52	47	Blanks	418

REPORT OF CLERK — PRECINCT ONE

ANDOVER, March 3, 1924

Polls opened at 6 a.m. and closed at 5 p.m. Ballot Box registered 0000 at opening, when closed 1120; number of ballots received 1950. Ballots returned 831. Number of ballots cast 1119. Female votes cast 405, male votes cast 714.

MARK M. KEANE, *Clerk*

REPORT OF CLERK — PRECINCT TWO

BALLARDVALE, March 3, 1924

Polls opened at 6 a.m. and closed at 5 p.m. Ballot box registered at opening 0000, when closed 205. Number of ballots received 500, number of ballots cast 205. Ballots returned 295. Warden Clester E. Matthews in charge. Constable George N. Sparks on duty.

JOSEPH P. LYNCH, *Clerk*

REPORT OF CLERK — PRECINCT THREE

SHAWSHEEN VILLAGE, March 3, 1924

Polls opened at 6 a.m. and closed at 5 p.m. Ballot box registered at opening 0000, when closed 325. Number of ballots cast 325. Number of ballots received 650. Ballots returned 325.

HENRY J. LAVERY, *Clerk*

REPORT OF CLERK — PRECINCT FOUR

ANDOVER, March 3, 1924

Polls opened at 6 a.m. at the Phillips Club, School Street, with Warden H. S. Hopper in charge. Ballot box registered at opening 0000. The polls closed at 5 p.m., with a total of 254 votes. Total number of ballots received 599. Ballots returned 345. Officer William L. Frye on duty.

ROBERT W. WINTERS, *Clerk*

After final action on Article One, the said meeting was adjourned by virtue of Section 20, Chapter 39 of the General Laws to Monday, March 10th, at 1.30 o'clock p.m. at the Town Hall.

1.30 O'CLOCK P.M. MONDAY, MARCH 10TH, 1924

The Moderator declared:

Alfred E. Stearns elected Moderator for One Year.

George A. Higgins elected Town Clerk for One Year.

George A. Higgins elected Town Treasurer for one year.

Charles Bowman elected Selectman for three years.

Charles Bowman elected Assessor for three years.

William B. Cheever elected Collector of Taxes for one year.

Thaxter Eaton elected member School Committee for three years.

Mary O. French elected member School Committee for three years.

David R. Lawson elected member School Committee for three years.

Ernest A. Johnson elected member School Committee for two years (to fill vacancy).

Burton S. Flagg elected Trustee of Memorial Hall Library for seven years.

Philip L. Hardy elected member Board of Public Works and Sinking Fund Commission for three years.

William D. McIntyre elected member Board of Public Works and Sinking Fund Commission for Three years.

Franklin H. Stacey elected member Board of Health for three years.

Louis S. Finger elected Auditor of Accounts for one year.

John S. Robertson elected Auditor of Accounts for one year.

Harry Sellars elected Auditor of Accounts for one year.

James Napier elected Constable for one year.

Frank M. Smith elected Constable for one year.

George N. Sparks elected Constable for one year.

Edward H. Berry elected Tree Warden for one year.

Took up Article 2 and chose: —

W. Dacre Walker, trustee of Cornell Fund for three years.

Chose Street Lighting Committee for One year (appointed by the Moderator): Walter H. Coleman, Fred G. Cheney, Henry J. Gardner, Frederic G. Moore, James C. Souter.

Chose Finance Committee for One year (appointed by the Moderator): Henry A. Bodwell, William C. Crowley, John C. Angus, George L. Averill, Chester W. Holland, George H. Winslow, Irving Southworth.

War Memorial Committee for one year (appointed by the Moderator): Edward A. Brooks, Frederic S. Boutwell, Joseph L. Burns, Nathan C. Hamblin, Roy E. Hardy, Bartlett H. Hayes, Ernest A. Johnson.

Took up Article 3: —

Voted to appropriate the following stated sums of money: —

Almshouse	\$7000.00
Relief Out	6000.00
Aiding Mothers with Dependent Children	7000.00
Board of Health	4000.00
Brush Fires	1000.00
Election and Registration	2200.00
Essex County Tuberculosis Hospital (maintenance)	2883.00
Fire Department	26600.00
G. A. R.	100.00
Hay Scales	125.00

Amount carried forward

\$56908.00

<i>Amount brought forward</i>		\$56908.00
Highways		80000.00
Maintenance	\$40000.00	
New construction	40000.00	
Interest		41600.00
Insurance		6500.00
Memorial Hall Library		4500.00
Memorial Day		550.00
Miscellaneous		600.00
Parks and Playsteads		1500.00
Police		18250.00
Printing		1500.00
Public Dump		150.00
Reserve Fund		3000.00
Retirement of Veterans		300.00
Retirement of Bonds		62500.00
Schools		126515.00
Sewer Department		6000.00
Soldiers' Relief		2000.00
Spring Grove Cemetery		5200.00
State Aid		500.00
Street Lighting		11000.00
Town House		3000.00
Town Officers		12160.00
Tree Warden		10000.00
Moth Work	6000.00	
Tree Work	4000.00	
Water Department, Maintenance		33500.00
Water Department Service Pipe		15000.00
American Legion, Andover Post No. 8		1000.00
Article 4 — Essex County Tuberculosis Hospital		1396.13
Article 6 — Water Extension North St.		20000.00
Article 9 — Sewer Poor St.		5341.00
Article 10 — Sewer Magnolia Ave.		2000.00
Article 13 — Spring Grove Cemetery		2000.00
Article 16 — Garbage		2000.00

<i>Amount carried forward</i>		\$536470.13
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<i>Amount brought forward</i>	\$536,470.13
Article 17 — Pomp's Pond	2000.00
Article 19 — Bleachers	4500.00
Article 25 — Observation tower — Prospect Hill	300.00
	<hr/>
	543,270.13
Haverhill Street Note	30,000.00
State and County Taxes (estimate)	50,000.00
	<hr/>
	\$623,270.13

Took up Article 4.

Voted, at 2.57 p.m. — That for the purpose of paying the first apportionment of \$71,396.13 of the town's share of the net amount of expenditures and indebtedness on account of the Essex County Tuberculosis Hospital under the provisions of Gen. Laws Chapter 111, Sections 78 to 91, or corresponding earlier laws, as amended by Chapter 439, Acts of 1923, by order of the County Commissioners of February 6, 1923, said sum of \$71,396.13 be and the same is hereby appropriated, of which amount \$1,396.13 be raised in the tax levy of the current year 1924 and the balance of \$70,000.00 be raised under authority of Chapter 44 Gen. Laws by borrowing, for which purpose the Town Treasurer is hereby authorized and directed to prepare, issue and sell, with the approval of the Selectmen, bonds or notes in said amount of \$70,000 denominated "Town of Andover, County Tuberculosis Hospital Loan," dated April 1, 1924, due \$7000 on April 1, each year 1925 to 1934 inclusive, bearing interest at a rate not exceeding 4½ per cent per annum payable semiannually. Other particulars as to form, issuance and sale of said bonds or notes shall be determined by the Town Treasurer. The vote stood Yeas 223, Nays 0000.

Took up Article 5.

Voted, at 3.22 p.m. — to refer to the Board of Public Works with the instruction that said Board make a comprehensive study and investigation into the subject matter of extending the water mains into the outlying districts and report thereon at the next annual Town meeting, and with a further instruction that, if, in

the judgment of said Board any or all of the petitioners mentioned in Article 5, 6, 7 and 8 should have the extensions requested, said Board prepare and insert appropriate article or articles in the next annual Town Warrant for action by the Town.

Took up Article 6.

Voted, at 4.15 p.m. — to authorize the Board of Public Works to extend the water main from the dead end at the residence of William F. Trauschke — along North Street as far as the North School at the corner of North Street and River Road, and appropriate the sum of twenty thousand (\$20000.00) dollars therefor.

Took up Article 7.

Voted, at 4.18 p.m. — to refer to the Board of Public Works as in Article 5.

Took up Article 8.

Voted, at 4.24 p.m. — to refer to the Board of Public Works as in Article 5.

Took up Article 9.

Voted, at 4.25 p.m. — to accept as a part of its sewerage system a sewer on Poor Street from a point beginning at Lowell Street, and extending to a manhole at the junction of William Street, a distance of 1308 feet, and authorize the assessment of betterments upon estates benefited by same, according to plan of John Franklin, C.E., dated December 8th, 1923, and appropriate the sum of \$5341.00 to reimburse the American Woolen Co. for the cost of constructing the same.

Took up Article 10.

Voted, at 4.26 p.m. — to authorize the building of a sewer, beginning at the terminus of the present sewer on Poor Street and extending a short distance on Magnolia Avenue, to a point near the Shawsheen School, an entire distance of about 300 feet, and appropriate the sum of \$2000.00 for its construction and accept the same as a part of the sewerage system.

Took up Article 11.

Voted, at 4.48 p.m. — to authorize the Board of Selectmen to sell to the American Woolen Company for One dollar (\$1.00), the

land owned by the town, which was formerly used for its filtration plant, and authorize the Selectment to convey the said land by a proper deed or deeds in behalf of the town, the Selectmen to retain and reserve for the Town such rights of way as may be necessary or advisable for the Town to hold.

Took up Article 12.

Voted, at 4.49 p.m. — To accept the provisions of Sections 42, 43 and 44 of Chapter 48 of the General Laws relating to the establishment of a fire department under the control of an officer to be known as the Chief of the Fire Department.

Took up Article 13.

Voted, at 4.50 p.m. — to appropriate the sum of \$2000.00 to purchase a lot of land containing 5 acres, lying between Spring Grove Cemetery and Porter Road.

Took up Article 14.

Voted, at 4.53 p.m. — to indefinitely postpone.

Took up Article 15.

Voted, at 5.50 p.m. — that the Moderator appoint a new committee for further study of this matter to report at the next annual meeting.

Voted, at 5.58 p.m. — to adjourn to Saturday, March 15th, at 2 p.m.

2 P.M. SATURDAY, MARCH 15TH, 1924

Dr. Charles E. Abbott arose to a question of personal privilege and presented the following resolution which was unanimously adopted by a rising vote: —

Resolved: — that a vote of thanks be tendered Mr. Alfred L. Ripley for the able, fair and impartial manner in which he has conducted for ten years, the various town meetings which have been carried on under his wise and courteous administration as Moderator — and it is further moved, that a copy of this Resolution be spread upon the records of this meeting.

Took up Article 18.

Voted, at 3.25 p.m. — to refer to the Selectmen and Engineers to investigate and report recommendations at the next annual town meeting.

Took up Article 19.

Voted, at 3.45 p.m. — to appropriate the sum of \$4500 to erect bleachers and to provide playground accessories for the Playstead, to be expended under direction of the Board of Public Works.

Took up Article 20.

Voted, at 3.50 p.m. — that article be referred to the Selectmen.

Took up Article 21.

Voted, at 3.55 p.m. — to accept as a town way, as laid out by the Selectmen, and shown on plan filed with the Town Clerk, a street located on the northerly side of Chestnut Street, about one hundred and twenty-two feet easterly of land of Burt and running northerly to Summer Street.

Took up Article 22.

Voted, at 4.05 p.m. — not to change the name of that part of Poor Street, running from Main Street southwesterly to Corbett Road, to Oxford Street.

Took up Article 23.

Voted, at 4.06 p.m. — that article be withdrawn.

Took up Article 24.

Voted, at 4.07 p.m. — to refer to Fire Engineers.

Took up Article 25.

Voted, at 4.08 p.m. — to appropriate the sum of \$300 as its apportionment toward the erection of a sixty-foot steel forest fire observation tower on the summit of Prospect Hill by the Division of Forestry of Massachusetts.

Took up Article 26.

Voted, at 4.09 p.m. — to release any rights acquired by it by virtue of an oral agreement made between the Board of Public Works and Maurice J. Curran for the laying and maintenance of sewer pipes across the Roger Sweeney Field, and to authorize the Board of Public Works through its chairman to execute such release in behalf of the town.

Took up Article 27.

Voted, at 4.10 p.m. — to discontinue that part of Whittier Street between the Park and School property, a distance of 583

feet from Bartlet Street to the junction of Whittier Court and Whittier Street, so that this may become a part of the Park System.

Took up Article 28.

Voted, at 4.12 p.m. — That the taxes be collected by the Collector, that he receive a salary of \$2000 per year and that interest be charged at the rate of 6 per cent per annum from October 15th on all taxes remaining unpaid after November 1st.

Took up Article 29.

Voted, at 4.13 p.m. — That the Town Treasurer, with the approval of the Selectmen, be and hereby is authorized to borrow money from time to time in anticipation of the revenue of the financial year beginning January 1st, 1924, and to issue a note or notes therefor, payable within one year, any debt or debts incurred under this vote to be paid from the revenue of said financial year.

Took up Article 30.

Voted, at 4.14 p.m. — that all unexpended appropriations be turned into the treasury with the exception of the following: Water loan, \$6882.97; Main Street Sidewalk, \$1160.52; Roger's Brook, \$985.20; Outfall Sewer, \$8739.53; Shawsheen School, \$187,575.95; McCarthy Land Taking, \$750; Memorial Committee, \$444.14.

Took up Article 31.

Voted, at 4.16 p.m. — that the Report of the Town Officers be accepted and that the Finance Committee for 1924 make a study of the several departments so that they can assist in compiling a report which shall show the amounts paid and to whom, particularly the salaries, etc., of Town Officials.

Took up Article 32.

Voted, at 4.22 p.m. — that the meeting be dissolved.

The foregoing is a true copy of the warrant and of the Officers' return on the same, also a true record of the doings of the regular and adjourned meetings.

Attest:

GEORGE A. HIGGINS, *Town Clerk*

FINANCIAL REPORT

SCHOOLS

SHAWSHEEN VILLAGE SCHOOL

Appropriation	\$231000.00
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L. H. Shattuck Company, Inc. Gen.	
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Contract	\$182352.80
Bride & Grimes, Plumbing and Heating	19414.85
Engineering Services	1019.78
Architectural Fees	12086.60
Grading	2900.00
Furnishings	3872.30
Extras	1603.53
Balance on hand, January 1, 1925	7750.14

	<hr/>	<hr/>
	\$231000.00	\$231000.00

GENERAL EXPENSES

Salaries:

Superintendent	\$3960.00
Attendance Officer	100.65
Clerk	926.00

	<hr/>	\$4986.65
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Office and Miscellaneous	295.70
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	<hr/>	\$5282.35
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EXPENSE OF INSTRUCTION

Supervisors:

Salaries	\$7683.73	7683.73
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Teachers:

High	19025.33
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Elementary	54441.29
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	<hr/>	73466.62
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Amount carried forward

	<hr/>	\$86432.70
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<i>Amount brought forward</i>		\$86432.70
Textbooks:		
High	\$969.23	
Elementary	3072.65	
	<hr/>	4041.88
Supplies:		
High	1125.17	
Elementary	1325.42	
	<hr/>	2450.59

EXPENSE OF OPERATION

Janitors:		
High	\$2348.53	
Elementary	4844.77	
	<hr/>	7193.30
Fuel:		
High	883.95	
Elementary	4220.94	
	<hr/>	5104.89
Miscellaneous:		
High	418.28	
Elementary	943.83	
	<hr/>	1362.11

MAINTENANCE

Repairs:		
High	\$1473.16	
Elementary	3994.51	
	<hr/>	5467.67

AUXILIARY AGENCIES

Health:		
High	\$364.15	
Elementary	1177.80	
	<hr/>	1541.95

<i>Amount carried forward</i>		\$113595.09
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Amount brought forward

\$113595.09

Transportation:

High

2530.50

Elementary

4874.86

7405.39

MISCELLANEOUS

Tuition:

High

\$132.88

Elementary

500.08

\$632.96

Sundries:

High

416.33

Elementary

1520.71

1937.04

OUTLAYS

Grounds

\$130.00

130.00

New Equipment

2759.33

2759.33

SUMMARY OF RECEIPTS AND EXPENDITURES

Appropriation

\$126515.00

Total Expenditures

126459.81

Balance

55.19

TOWN OFFICERS

Appropriation	\$12160.00
Frank H. Hardy, Chairman Selectmen, Assessor and Overseer	\$900.00
Charles Bowman, Selectman, Assessor and Overseer	800.00
Andrew McTernen, Selectman, Assessor and Overseer	800.00
George A. Higgins, Town Clerk and Clerk of Selectmen	1383.33
George A. Higgins, Town Treasurer	1750.00
William B. Cheever, Tax Collector	1966.68
Edith P. Sellars, Clerk and Stenographer	1560.00
Joseph I. Pitman, Building Inspector	166.64
Charles T. Gilliard, Building Inspector	333.28
Daniel J. Murphy, Town Counsel	761.65
John S. Robertson, Auditor	100.00
Harry Sellars, Auditor	100.00
Louis S. Finger, Auditor	83.34
Smart & Flagg, Surety Bonds	202.50
Division of Accounts, Certification of Notes	24.00
Alfred L. Ripley, Moderator	10.00
Stationery and Books	415.46
John C. Angus, P.M., Postage and En- velopes	212.24
Charles F. Emerson, Sealet	83.33
Daniel A. Hartigan, Sealer	125.00
Lilla D. Stott, Real Estate Transfers	80.33
Telephone	23.15
<i>Amount carried forward</i>	\$11880.93

<i>Amount brought forward</i>		\$11880.93	
Auto hire	60.00		
Board of Assessors, expenses	31.00		
Board of Selectmen, expenses	13.15		
Clerk and Treasurer, sundry expenses	39.15		
Extra clerical hire	37.95		
Miscellaneous	87.87		
Total expenditure	12150.05		
Balance	9.95		
		\$12160.00	\$12160.00

TOWN HOUSE

Appropriation		\$3000.00
William C. Brown, Janitor	\$1100.00	
Lighting	369.25	
Fuel	562.00	
Equipment and repairs	583.89	
Police duty	109.00	
Supplies	90.70	
Labor	133.80	
Water	26.94	
	<hr/>	
Total expenditure	2975.58	
Balance	24.42	
	<hr/>	
	\$3000.00	<hr/>
		\$3000.00

ELECTION AND REGISTRATION

Appropriation		\$2200.00	
Precinct Officers			
Precinct One	\$ 376.00		
Precinct Two	208.00		
Precinct Three	200.50		
Precinct Four	235.00		
Registrars of Voters	183.00		
Andover Press, printing and advertising	391.55		
Voting equipment	70.00		
Police duty	61.50		
Janitor service	19.05		
Lunches	35.50		
Transportation	28.00		
Clerical hire	32.38		
Miscellaneous	3.74		
Total expenditure	\$1844.22		
Balance	355.78		
		<hr/>	<hr/>
	\$2200.00	\$2200.00	

BOARD OF HEALTH

Appropriation		\$4000.00
Lotta Johnson, Nurse, salary	\$1500.00	
Lotta Johnson, use of car	200.00	
Lotta Johnson, Inspector of Slaughtering	200.00	
Dr. Charles E. Abbott, salary	75.00	
F. H. Stacey, salary	50.00	
F. H. Stacey, Schick test	208.60	
F. H. Stacey, fumigation and supplies	239.23	
B. T. Haynes, salary	50.00	
B. T. Haynes, fumigation	21.00	
Ray S. Youmans, Inspector of Animals	145.80	
Joseph P. Nolan, Plumbing Inspector	142.00	
John S. Buchan, Plumbing Inspector	20.00	
Essex Sanatorium, board of patients	964.60	
No. Reading Sanatorium, board of patients	134.28	
A. & P. Tea Co., provisions	12.38	
Printing	12.50	
Miscellaneous	20.05	
	3955.44	
Total expenditure		
Balance	4.56	
	\$4000.00	\$4000.00

PRINTING

Appropriation		\$1500.00	
The Andover Press, printing	\$1361.00		
Dumas & Co., cards	75.50		
Total	1436.50		
Balance	63.50		
	\$1500.00	\$1500.00	

HAY SCALES

Appropriation		\$ 125.00	
William C. Brown, weigher	\$ 100.00		
Hobbs & Warren, book	4.25		
	\$ 104.25		
Balance	20.75		
	\$ 125.00	\$ 125.00	

STREET LIGHTING

Appropriation		\$11000.00	
Lawrence Gas Co.	\$10787.13		
Balance	212.87		
	\$11000.00	\$11000.00	

TREE WARDEN AND MOTH DEPARTMENT

MOTH WORK

Appropriation		\$6000.00
Edward H. Berry, Supt.	\$1123.91	
Pay rolls	2789.21	
Team hire	488.13	
Truck hire	213.38	
Equipment and repairs	307.26	
Lead and creosote	902.30	
Rent	130.00	
Miscellaneous	38.62	
	<hr/>	
Total expenditure	5992.81	
Balance	7.19	
	<hr/>	
	\$6000.00	\$6000.00

TREE WARDEN

Appropriation		\$4000.00
Edward H. Berry, Warden	\$ 642.10	
Pay rolls	2278.18	
Equipment and repairs	622.56	
New Trees	178.00	
Telephone	42.70	
Truck hire	69.00	
Team hire	34.50	
Rent	45.00	
Miscellaneous	51.18	
Creosote	16.50	
Printing	7.55	
	<hr/>	
Total expenditure	3987.27	
Balance	12.73	
	<hr/>	
	\$4000.00	\$4000.00

SPRING GROVE CEMETERY

Appropriation, March 1924		\$5200.00
Appropriation, Land Purchase		2000.00
F. A. Swanton, Supt.	\$1450.00	
Pay rolls	2455.13	
Horse hire	387.53	
Clark Land Purchase	2000.00	
Edith P. Sellars, Clerl	100.00	
Maintenance of grounds	585.56	
Equipment and repairs	187.93	
Miscellaneous	13.24	
Water	10.01	
Printing and stationery	10.50	
	<hr/>	
Total expenditures	7199.90	
Balance	.10	
	<hr/>	
	\$7200.00	\$7200.00

RECEIPTS

Sale of lots	\$ 917.25
Care of lots	925.00
Perpetual care	708.00
Interments and use of tomb	783.00
Foundations	167.10
Sale of building	400.00
	<hr/>
	\$3900.35

STATE TAXES

Andover's proportion of State Tax		\$20000.00
Andover's proportion of Highway Tax		4529.33
Bank Tax		1094.64
Auditing Town Accounts		480.57
Corporation Tax		3.98
Treasurer of Commonwealth	\$26108.52	
	<hr/>	<hr/>
	\$26108.52	\$26108.52

COUNTY TAX

Andover's proportion of County Tax		\$18525.60
Walter P. Babb, County Treasurer	\$18525.60	
	<hr/>	<hr/>
	\$18525.60	18525.60

DOG TAX

Received from County Treasurer		\$495.66
Memorial Hall Library	\$495.66	
	<hr/>	<hr/>
	\$495.66	\$495.66

MEMORIAL DAY

Appropriation		\$550.00
Jesse S. Billington, Quartermaster	\$550.00	
	<hr/>	<hr/>
	\$550.00	\$550.00

POST 99, G. A. R.

Appropriation		\$100.00
Jesse S. Billington, Quartermaster	\$100.00	
	<hr/>	<hr/>
	\$100.00	\$100.00

RETIREMENT OF VETERANS

Appropriation		\$300.00
Paid to Veteran	\$300.00	
	<hr/>	<hr/>
	\$300.00	\$300.00

PUBLIC DUMP

Appropriation		\$150.00
Neils Sorenson, keeper	\$75.00	
Balance	75.00	
	<hr/>	<hr/>
	\$150.00	\$150.00

FIRE DEPARTMENT

Appropriation	\$26600.00	
Salaries, engineers	\$775.00	
Salary, permanent chief	1438.00	
Wages, permanent men	15207.00	
Wages, call men	2898.73	
Fire Alarm	1103.20	
Fuel	976.04	
Light	240.47	
Equipment and repairs	1881.76	
Maintenance building and furnishings	784.50	
Horses, care of same	518.81	
Telephones	109.01	
Janitor, Ballardvale	100.00	
Tyer Rubber Co., blowing whistle	300.00	
Miscellaneous	218.61	
	<hr/>	
Total expenditure	26551.13	
Balance	48.87	
	<hr/>	
	\$26600.00	<hr/> \$26600.00

BRUSH FIRES

Appropriation	\$1000.00	
Pay rolls	\$1247.75	
Miscellaneous	26.60	
Transferred from Reserve Fund		274.35
	<hr/>	<hr/>
	\$1274.35	\$1274.35

POLICE DEPARTMENT

Appropriation		\$18250.00
Frank M. Smith, Chief	\$ 2130.00	
Pay roll, patrolmen	13111.35	
Wages, special police	662.46	
Maintenance, motor apparatus	864.50	
Equipment and repairs	310.49	
Painting traffic lines	195.00	
Traffic Beacons	997.71	
Telephones	159.61	
Light	76.81	
Miscellaneous	135.68	
	18643.61	
Total expenditure		
Transferred from Reserve Fund		393.61
	\$18643.61	\$18643.61

SEWER SINKING FUND

Appropriation		\$1000.00
Arthur T. Boutwell, Treas. Sinking Fund	\$1000.00	
	\$1000.00	\$1000.00

ANDOVER POST NO. 8, AMERICAN LEGION

Appropriation		\$1000.00
Paid for		
Rent	\$470.00	
Janitor service	250.00	
Fuel	185.50	
Light	84.43	
	<hr/>	
Total expenditure	999.93	
Balance	.07	
	<hr/>	
	\$1000.00	\$1000.00

WAR MEMORIAL COMMITTEE

Appropriation Balance		\$444.14
Ripley & LeBoutillier, architects	\$140.84	
Balance	303.30	
	<hr/>	
	\$444.14	\$444.14

ESSEX COUNTY TUBERCULOSIS HOSPITAL

Appropriation		\$2883.00
Essex County, maintenance	\$2882.06	
Balance	.94	
	<hr/>	
	\$2883.00	\$2883.00

POMP'S POND RECREATION COMMITTEE

Appropriation		\$2000.00
Pope & Cottle Co., building	\$690.00	
Philip L. Hardy, labor	371.63	
Rolland B. Estabrook, guard	200.00	
William B. Atwood, guard	200.00	
John F. McDonough, labor	148.50	
J. E. Pitman Estate, labor	152.94	
Donovan & Locke, painting	44.00	
A. B. True, skiff	35.75	
C. S. Buchan, supplies	15.05	
Andover Press, cards	24.50	
W. C. Crowley, supplies	6.70	
O'Connell-Ingalls, advertising	5.95	
Andover Steam Laundry	2.56	
	<hr/>	
Total expenditure	1902.58	
Balance	97.42	
	<hr/>	
	\$2000.00	<hr/> \$2000.00

INTEREST

Appropriation		\$41600.00
Water Loans	\$4842.50	
Sewer Loans	9888.75	
High School Loans	2760.00	
Shawsheen Bridge Loan	356.26	
Main St. Loan	3600.00	
Shawsheen School Loan	9775.00	
Tuberculosis Hospital Loan	1487.50	
Temporary Loans	6461.08	
	39171.09	
Total expenditure		
Balance	2428.91	
	\$41600.00	\$41600.00

TEMPORARY LOANS

Andover National Bank, Note 57	Rate 4.27	\$30000.00
Andover National Bank, Notes 64-69	" 4.15	150000.00
Andover National Bank, Notes 70-71	" 3.36	50000.00
Andover National Bank, Notes 72-75	" 2.49	100000.00
		\$330000.00
Andover National Band, paid		330000.00

MISCELLANEOUS

Appropriation		\$600.00
Old School House, B. Vale, equipment and repairs	\$479.59	
A. P. Wright, Field Driver	25.00	
Sealer Weights and Measures, supplies	3.15	
E. M. Lundgren, returning deaths	19.00	
M. J. Mahoney, returning deaths	3.00	
E. L. Bennett, returning deaths	.75	
Charles F. Keefe, returning deaths	.75	
Dr. P. J. Look, returning births	11.75	
Dr. W. D. Walker, returning births	9.50	
Dr. E. D. Lane, returning births	6.50	
Dr. J. J. Daly, returning births	3.50	
Dr. P. W. Blake, returning births	1.25	
Dr. G. S. Allen, returning births	1.25	
Dr. J. F. Howard, returning births	1.00	
Margaret M. Sparhawk, returning death	.25	
	<hr/>	
Total expenditure	566.24	
Balance	33.76	
	<hr/>	
	\$600.00	<hr/> \$600.00

REDEMPTION OF BONDS

Appropriation		\$62500.00
Six High School Bonds	\$6000.00	
Ten Water Bonds	10000.00	
Twelve Sewer Bonds	12000.00	
Twenty Main Street Bonds	20000.00	
Twelve Shawsheen School Bonds	12000.00	
Shawsheen Bridge Bonds	2500.00	
	<hr/>	<hr/>
	\$62500.00	\$62500.00

INSURANCE

Appropriation, Fire		\$4000.00
Appropriation, Workmen's Compensation		2500.00
Merrimack Mut. Fire Ins. Co.	\$5070.55	
Smart & Flagg, Agents	89.90	
	<hr/>	
Total	5160.45	
Balance	1339.55	
	<hr/>	<hr/>
	6500.00	6500.00

OVERSEERS OF THE POOR

The Poor Department has, during the past year, been given the same careful consideration as in previous years.

All cases of distress have been investigated and if found worthy, relief has been given.

The buildings of our Town Home are in good repair and no extraordinary expenses are anticipated during the current year, although small repairs and minor changes and additions may have to be made.

Every effort, consistent with the economical operation of our Town Home, is made by our matron to assure the comfort of our inmates and we feel that this division of our Poor Department is being operated efficiently and with economy.

FRANK H. HARDY
CHARLES BOWMAN
ANDREW McTERNEN

Overseers of the Poor

ALMSHOUSE EXPENSES

Appropriation		\$7000.00
Mrs. F. A. Swanton, matron	\$900.00	
Wages, employees	1259.03	
Groceries and provisions	3031.40	
Fuel	650.00	
Light	211.49	
Equipment and repairs	350.07	
Fred A. Swanton, board of horse	216.80	
Maintenance, buildings and grounds	52.98	
Miscellaneous	123.40	
Water	80.00	
Funeral expenses	55.00	
Medicine and medical aid	59.40	
Clothing	45.76	
Telephone	10.50	
	<hr/>	
	\$7045.83	
Transferred from Reserve Fund		45.83
	<hr/>	
Total expenditure	\$7045.83	<hr/> \$7045.83

SOLDIERS' RELIEF

Appropriation		\$2000.00
Total expenditure	\$1303.53	
Balance	696.47	
	<hr/>	<hr/>
	\$2000.00	\$2000.00

STATE AID

Appropriation		\$500.00
Total expenditure	\$288.00	
Balance	212.00	
	<hr/>	<hr/>
	\$500.00	\$500.00

OUTSIDE RELIEF

Appropriation		\$6000.00
Paid out of Almshouse	\$3084.28	
Paid other cities and towns	1141.41	
Paid State	625.42	
Paid account of State	616.00	
	<hr/>	<hr/>
Total expenditure	5467.11	
Balance	532.89	
	<hr/>	<hr/>
	\$6000.00	\$6000.00

AIDING MOTHERS WITH DEPENDENT CHILDREN

Appropriation		\$7000.00
Town cases	\$3726.00	
Paid other towns	559.88	
Paid account other towns	1331.75	
	<hr/>	
Total expenditure	5617.63	
Balance	1382.37	
	<hr/>	
	\$7000.00	\$7000.00

STATISTICS OF ANDOVER ALMSHOUSE

Number of inmates January 1, 1924	9
Number admitted	4
Number of deaths	1
Number of inmates January 1, 1925	12
Number between one and ten	1
Number between twenty and thirty	1
Number between sixty and seventy	3
Number between seventy and eighty	3
Number between eighty and ninety	4

MRS. F. A. SWANTON, *Matron*

SPRING GROVE CEMETERY

The Trustees of Spring Grove Cemetery submit the following report: —

The care of the Spring Grove Cemetery has been kept up to its high standard, both in appearance and simplicity.

Over 750 feet of cement curbing has been laid on some of the avenues on the west side, giving them a more finished appearance.

Five acres of land have been cleared and sowed, making more available land for lots.

The open winter of last year killed the grass on many lots and much time and money were spent on reseeding same. There are still several of these lots that will have to be taken care of in the spring.

Two more rows of small pines were set out on the west side.

There are only 3 four-lot graves and a few single graves left on the west side of the cemetery. The Trustees hope as lots are purchased on the east side, same will be put in perpetual care when sold.

The Trustees ask for \$6000.00 to carry on the work and plans for further development as the town is growing and all new work will have to be done on the east side of the cemetery.

Respectfully submitted,

WALTER I. MORSE, *Chairman*
DAVID R. LAWSON
DANIEL H. POOR
FRED A. SWANTON
EVERETT M. LUNDGREN
JOHN W. STARK
FRED E. CHEEVER

FRED E. CHEEVER, *Clerk of the Board of Trustees.*

STATISTICS OF SPRING GROVE CEMETERY

Number of lots sold as per last report	558
Number of lots sold in 1924	19
Total number sold	577
Total number single graves sold	205
Number of interments as per last report	1688
Number of interments in 1924	68
Total number of interments	1756

FRED A. SWANTON, *Superintendent*

ANIMAL INSPECTOR'S REPORT

To the Board of Selectmen: —

GENTLEMEN: — I hereby submit my annual report for the year ending December 31, 1924.

Number of cattle inspected	1414
Number of swine inspected	521
Number of sheep inspected	3
Number of stables inspected	139
Number of cattle condemned, affected with tuberculosis	8
Number of stables disinfected	7
Interstate cattle identified and released	238
Number of dogs quarantined	11
Number of dogs affected with rabies	

Fatal infectious diseases of poultry are quite prevalent throughout the country and if occurrence of same exists I should be notified.

Respectfully submitted,

RAY S. YOUMANS, D.V.M.

Inspector of Animals

REPORT OF BUILDING INSPECTOR

To the Board of Selectmen:

GENTLEMEN: — I herewith submit my report of the Building Inspector's Department for the year 1924.

One hundred eighty-three permits were granted to erect and remodel the following buildings.

Dwellings	42
Two-Family Dwellings	12
Garages	43
Additions and Alterations	43
Business Blocks	1
Sheds	17
Hen Houses	7
Camps	10
Small Stores	2
Storehouses	1
Bleachers	2
Small Office Buildings	2
Schools	1
	<hr/>
	183

During the year three licenses to operate passenger elevators were issued and a general observation test was made of every elevator in town.

Respectfully submitted,

CHARLES T. GILLIARD

Building Inspector

FIRE DEPARTMENT

To the Board of Selectmen of the Town of Andover.

GENTLEMEN: —

I herewith submit the report of the Andover Fire Department from January 1st, 1924, to January 1st, 1925.

During this time the Department has answered 125 bell and 58 still alarms.

It has laid 16400 feet of 2½-inch and 2015 feet of ¾-inch hose, using 1840 gallons of chemical and 1095 feet of ladders.

The value of buildings and contents where fire occurred was \$285,500.00, loss on buildings and contents \$18,724.24, mostly covered by insurance.

The equipment consists of one combination hose and chemical, one combination, hose, chemical and pump, one ladder truck, one hose wagon, two sleds, four sets of harnesses, two tipcarts, one exercise wagon, one brush fire truck, 6000 feet of 2½-inch hose, two horses.

During the year one life was lost by fire.

Respectfully submitted,

CHARLES F. EMERSON

Chief of the Andover Fire Department

POLICE DEPARTMENT

REPORT OF CHIEF

To the Board of Selectmen:

GENTLEMEN: —

I hereby submit the report of the Police Department for the year ending December 31, 1924.

Whole number of arrests 194. Males 191; Females 3

OFFENSES

Assault	12
Drunks	38
Drunk and disturbance	2
Violation of fish and game law	10
Non attendance at School	1
Escaped from and returned to Tewksbury Infirmary	2
Manslaughter	2
Insane	6
Town ordinance	1
Allowing minor child to peddle	1
Malicious mischief	10
Threats to do bodily harm	2
Selling mortgaged property	2
Gaming on the Lord's Day	4
Attempt to take life	1
Indecent exposure	1
Violation motor vehicle law. Minor offences	64
Operating while under the influence of liquor	13
Operating without proper registration	2
Operating without license	10
Operating so as to endanger life and safety	5
Operating without consent of owner	5

DISPOSITION OF CASES

Appealed	6
Paid fines in lower court	114
Probation	13
On file	16
Discharged	11
Committed to Danvers Infirmary	6
Committed to Tewksbury Infirmary	3
Committed to House of Correction	7
Suspended sentence to House of Correction	3
Suspended sentence to State Farm	2
Returned to parents	4
Continued for sentence	1
Held for Grand Jury	2
Arrested for out-of-town officers	6

MISCELLANEOUS

Fines paid in Lower Court	\$1487.50
Fines paid in Superior Court	416.60
Value of property stolen	950.00
Value of property recovered	1500.00
Police equipment	800.00
Traffic signs and flashers	1000.00
Dead bodies cared for	8
Doors found open and secured	134

SUPERIOR COURT FINDINGS

No bill found	1
Cases pending	5
On probation	3
Paid fines	6
Nol-prossed	2

FRANK M. SMITH
Chief of Police

BOARD OF HEALTH NURSE AND AGENT

To the Board of Health.

There have been 229 cases of contagious diseases reported, classified and compared with 1923 and 1922 as follows:

	1924	1923	1922
Influenza	4	51	125
Tuberculosis	12	6	11
Incephalitis Lethargica	0	0	0
Typhoid Fever	1	0	0
Scarlet Fever	51	15	15
Diphtheria	2	8	16
Chicken Pox	80	18	14
Whooping Cough	7	46	75
Measles	13	16	44
Mumps	45	5	7
Suppurative Conjunctivitis	0	0	0
Lobar Pneumonia	8	15	14
Anterio Poliomyelitis	1	1	2
German Measles	2	3	1
Septic Sore Throat	0	0	2
Ophthalmia Neonatorum	0	2	1
Gonorrhea	2	5	1
Syphilis	1	4	1
Rabies	0	18	1
	<hr/>	<hr/>	<hr/>
	229	213	328

DEATHS FROM CONTAGIOUS DISEASES

	1924	1923	1922
Tuberculosis	9	2	5
Typhoid Fever	0	0	0
Tetanus	0	0	0
Measles	0	0	0
Lobar Pneumonia	2	0	3
Scarlet Fever	0	0	0
Diphtheria	0	0	0
Influenza	2	3	0
	13	6	8

As one will see by reading this report we have had a lower number of contagious and infectious diseases this year than we had last. Many of us may have been unaware that we have passed through a very serious time with an epidemic of scarlet fever all about us. There have been several hundred cases of this disease all around Andover while we have only had 51 cases for the year and at no time did it get into an epidemic stage.

In combining all calls and visits I have made 1654; which were practically of the same nature as the previous year. We have had one typhoid case this year which was in our opinion an imported one. I think our daily papers have been most helpful to the public on this particular subject in such a critical time, as there were many fatalities. Many cases of typhoid fever were caused by people eating raw oysters that were infected with the typhoid bacilli. I know of no better prevention of disease outside of that provided only by the medical profession than to follow the instruction given by capable authorities on care and cleanliness of foods and their locations.

It seems the Schick test and treatment of the same has been most effectual; as we have had only two cases of diphtheria, neither of which had the test. Diphtheria still remains the most important of contagious diseases, because of its high death rate.

While attending a lecture for nurses in the early spring, I heard one of the speakers say that infantile paralysis is not a recent disease but existed before Christ. Statistics show us that the first real epidemic that we know of happened in 1894 and really

what was considered a big epidemic occurred in New York in 1907 and 1908 and since that time we have had epidemics on a much larger scale elsewhere in the United States. In 1910 this disease was made reportable in this state. It is interesting to watch this disease as it seems as if there was a great number of cases followed by a drop, during a period of four years, and then an epidemic has pretty generally followed. The year 1920 was supposed to have been the maximum year, therefore 1924 was again the high-rate year for infantile paralysis in Massachusetts. People were frantic in 1916 when we had 1,927 cases throughout the state because they know that this malady claims the highest mortality among infectious diseases. The virus is transmitted through the saliva, therefore cleanliness is the watchword if one does not want to spread this disease. We have had one case of infantile paralysis this year, which proved fatal. Many of our previous cases were helped by trained women from the Harvard Commission.

Tuberculosis has claimed several of its victims this year in Andover. The public are beginning to realize the efforts that the many public and private associations are making to help us all to combat this most common of all diseases of which the community have to come in contact with so many times during the year.

Perhaps there has been no more gratifying point to the public at large than to have watched the steady decrease of infant mortality. Since 1920 it has steadily decreased each year and I wish to state that 1924 we had a lower infant death rate than 1923.

The question of foodstuffs has been of vital importance in the past years. I have had many complaints of people who thought that they had purchased things that were not fit to eat. Investigation showed that some of these complaints were just, while others were not. On Memorial day the Board of Health confiscated some two hundred cocoanuts which were destroyed. Although the shells looked good the inside of the cocoanut was in a very bad state of decay. As the purchase of a cocoanut is one of the big events for the children of Andover on this particular day, the Board of Health must have been the cause of a great many disappointments to the children, but may also have save them from some sickness and pain.

As inspector of slaughtering I wish to state that all of my inspections were passed as suitable for food.

The people last year were very desirous of some method for the collection of garbage. As there was a way agreed upon, I wish to give a little advice and also state what I have seen since this collection started. The first few weeks, in going to the place where this garbage is left to be fed to pigs, I noticed that there was very little glass, crockery, silverware, tin and other foreign edible matter for pigs, but as the time has gone on it is really surprising how callous the public have grown in this matter. If the public wish to be of help in this dilemma they should in the coming year be more careful as to what goes into their garbage pail. Not only has this been one great fault, but I wish to advise as to the use of disinfectants to be very careful to rinse out the receptacles well, after the use of carbolic acid.

Brooks and ponds, on account of the small amount of rainfall last year were the cause of a lot of trouble and propaganda. There was a lot of talk concerning Pomp's Pond which was all unfounded. Pomp's Pond was visited by the Board of Health at least once a week and at no time did we find conditions such as to order the closing of swimming landing. At one time when the water was at its lowest ebb and the wind had changed, it is true, there was an annoying odor but this was not detrimental to health.

Stony Brook gave us some trouble on account of stagnant water. We received a letter from somebody's attorney which caused us to make a thorough examination. Our plumbing inspector put blueing in all the sewer mains but found no leaks in these pipes. The Board of Public Works aided us in our search and the Fire Department flushed the brook out on Central street.

All communicable diseases must be reported to the Board of Health within twenty-four hours' time after their discovery. Any person concealing a contagious or infectious disease that is reportable by law will be prosecuted accordingly.

Respectfully submitted

LOTTA JOHNSON, R.N.

CORNELL FUND

Principal Fund		\$5000.00
Deposited in Andover Savings Bank	\$1000.00	
Deposited in Essex Savings Bank	1000.00	
Deposited in Broadway Savings Bank	1000.00	
Central Savings Bank	1000.00	
City Institution for Savings	1000.00	
	<hr/>	\$5000.00

RECEIPTS

Balance from last account	\$207.19	
Savings Bank interest	245.00	
	<hr/>	\$452.19

EXPENDITURES

Expended for coal and wood	\$193.20	
Balance on hand	\$258.99	
	<hr/>	\$452.19

JOHN C. ANGUS
CHARLES N. MARLAND
W. DACRE WALKER

Trustees

TOWN OF ANDOVER — JURY LIST

(JUNE 30TH, 1924)

Abbott, Newton S.	Carpenter	River Rd.
Armitage, Charles H.	Operative	124 Haverhill St.
Averill, George L.	Farmer	Reservation St.
Bailey, Charles L.	Retired	Main St.
Bailey, Henry B.	Farmer	High Plain Rd.
Bailey, Ralph	Farmer	Porter Rd.
Bailey, Samuel H.	Farmer	Porter Rd.
Bancroft, William A.	Retired	Lowell Junc.
Bassett, Arthur W.	Clerk	Hidden Rd.
Baxter, George H.	Gardener	43 Lowell St.
Barrett, Patrick J.	Ins. Collector	88 Chestnut St.
Boutwell, Edward W.	Farmer	Pleasant St.
Boutwell, Everett S.	Farmer	Pleasant St.
Burns, David F.	Signal Operator	Chester St.
Cates, A. Lincoln	Gardener	47 Whittier St.
Cannon, Gordon R.	Salesman	54 Salem St.
Carter, George M.	Farmer	High Plain Rd.
Chase, Herbert F.	Storekeeper	Summer St.
Clark, Herbert	Carpenter	Tewksbury St.
Cole, Joseph F.	Retired	Hidden Rd.
Cole, Roscoe K.	Carpenter	115 Elm St.
Coleman, Walter H.	Retired	42 Chestnut St.
Comeau, Arthur N.	Carpenter	Highland Rd.
Coutts, William C.	Retired	60 Maple Ave.
Dane, George A.	Dresser	Andover St.
Dick, Alexander	Retired	3 Cuba St.
Donald, Walter S.	Retired	Union St.
Doyle, Thomas F.	Fireman	Holt Rd.
Disbrow, George W.	Farmer	Chandler Rd.
Doherty, Martin	Retired	Harding St.

Dunnells, George C.	Watchman	6 Sutherland St.
Fairweather, James D.	Gardener	15 Abbot St.
Fleming, Edward, Jr.	Chauffeur	54 Haverhill St.
Flint, Edwin M.	Farmer	Pleasant St.
Flaherty, Michael J.	Spinner	River St.
Garland, George M.	Electrician	Prospect Hill Rd.
Gordon, Alexander	Belt Maker	82 Poor St.
Hannon, Patrick J.	Retired	Elm St.
Harrington, Daniel F.	Farmer	Osgood St.
Hill, Charles A.	Electrician	13 Chestnut St.
Hill, Paul	Farmer	Jenkins Rd.
Hill, Ira B.	Night Watchman	Lupine Rd.
Hilton, Henry	Operative	67 High St.
Holt, George A.	Carpenter	8 Summer St.
Hovey, James H.	Carpenter	Main St.
Hulme, Samuel P.	Real Estate	Brook St.
Jaques, Robert	Farmer	River St.
Jaquith, Newton	Electrician	Main St.
Keane, Mark M.	Clerk	Moraine St.
Kendall, Frank H. E.	Carpenter	7 Chestnut St.
Lawson, George D.	Retired	35 Maple Ave.
Lawson, John B.	Machinist	9 Chestnut St.
Lee, Harry F.	Farmer	Pleasant St.
Lindsay, J. William	Retired	Porter Rd.
Lynch, Joseph F.	Switchman	Tewksbury St.
Mahoney, Timothy J.	Clerk	Whittier St.
May, George M.	Painter	Main St.
McDonald, Frank S.	P. O. Clerk	129 Chestnut St.
McIntyre, William D.	Clerk	Andover St.
Miller, George R.	Salesman	Center St.
Mosher, James R.	Clerk	21 Balmoral St.
Morrissey, William B.	Electrician	66 Poor St.
Nason, Harry G.	Carpenter	Clark Rd.
Newton, Charles M.	Poultry Business	Boutwell Rd.
Nolan, Joseph R.	Plumber	7 Cuba St.
Noyes, John L.	Farmer	Lovejoy Rd.
O'Donnell, Hugh F.	Moulder	Center St.
O'Donnell, John A.	Switchman	Marland St.
Petrie, George B.	Janitor	Chickering Ct.

Poor, Daniel H.	Wool Sorter	Andover St.
Pike, Warren G.	Farmer	Laurel Lane
Pitman, Joseph I.	Carpenter	17 Summer St.
Platt, Henry W.	Overseer	Center St.
Purcell, James F.	Baker	36 Elm St.
Reilly, Bernard F.	Gardener	79 Haverhill St.
Remmes, Joseph T.	Electrician	Missionary Lane
Rennie, George	Farmer	Argilla Rd.
Riley, John A.	Retired	Center St.
Riley, Joseph A.	Wool Sorter	Center St.
Robinson, William C.	Blacksmith	427 No. Main St.
Scott, David M.	Warp Dresser	19 Avon St.
Shaw, Irving R.	Wool Sorter	High St.
Sherry, Frank J.	Pattern Maker	Andover St.
Sherry, Richard	Moulder	Chester St.
Stott, Joseph E.	Clerk	High St.
Stewart, James	Retired	Red Spring Rd.
Taylor, Loren E.	Clerk	11 Washington Ave.
Todd, Henry	Clerk	60 Poor St.
Trow, Henry J.	Wool Sorter	River St.
Valentine, Franklin S.	Clerk	20 Elm St.
Walker, Salmond G.	Carpenter	Chester St.
Ward, George D.	Farmer	Lowell St.
Whitman, David O.	Rubber Worker	9 Pine St.

ASSESSORS' REPORT

We herewith submit our annual report:

Number of males assessed, 2761		
Personal estate	\$4,710,292.00	
Real estate	12,098,950.00	
	<hr/>	16,809,242.00
Poll tax	5,522.00	
Tax on Personal estate	130,478.21	
Tax on Real estate	335,143.02	
	<hr/>	471,143.23
Moth assessment		2,058.73
Abatements		
Personal estate	420.94	
Real estate	508.98	
	<hr/>	929.92
Rate of taxation per 1000	27.70	
Number of		
Horses assessed		362
Cows assessed		867
Neat cattle		140
Swine		83
Fowl		21140
Dwellings		2122
Acres of land		17664

FRANK H. HARDY, *Chairman*
 CHARLES BOWMAN
 ANDREW McTERNEN
Board of Assessors

MUNICIPAL PROPERTIES AND PUBLIC IMPROVEMENTS

	Land and Buildings	Equip. and other Property	Total
Town Hall	\$62900	\$8000	\$70900
Fire Department	41500	30000	71500
Police Department		1000	1000
Schools	443500	10000	453500
Library	42000	10000	52000
Water Department	84450	325600	410050
Sewer Department	8000	475000	483000
Highway Department	4500	5275	9775
Tree Warden and Moth De- partment		5000	5000
Almshouse	41000	7500	48500
Park Department	32200		32200
Cemeteries	18000	500	18500
Weights and Measures		350	350
Hay Scales		350	350
Old Schoolhouse, Ballard- vale	5000		5000
Punchard School Fund		77000	77000
Memorial Hall Invest. Funds		73491	74217
Other Unproductive Proper- ties			
9 acres land, Burnham Rd.	2500		2500
9 acres land, Indian Ridge (gravel pit)	3000		3000
Totals	\$788550	\$1029066	\$1818342

REPORT OF TAX COLLECTOR

1921

Amount of warrant		\$276.93
Interest		28.94
Collected taxes	\$276.93	
Collected interest	28.94	
	<hr/>	<hr/>
	\$305.87	\$305.87

1922

Amount of warrant		\$14294.05
Added to warrant		6.91
Moth work		125.25
Interest		1269.12
Collected taxes	\$14114.58	
Collected moth	125.25	
Collected interest	1269.12	
Abated taxes	170.80	
Uncollected taxes	15.58	
	<hr/>	<hr/>
	\$15695.33	\$15695.33

1923

Balance of warrant — per 1924 Town Report		\$52977.42
Less error on item "Uncollected"		2140.28
		<hr/>
		50837.14
Added to warrant		50.11
Interest		1737.98
Moth work		246.70
Additional moth work		2.85
Collected taxes	\$40324.16	
Collected moth work	216.90	
Collected interest	1737.98	
Taxes abated	764.99	
Uncollected taxes	9798.10	
Uncollected moth	32.65	
	<hr/>	<hr/>
	\$52874.78	\$52874.78

1924

Amount of warrant		\$471143.23
Added to warrant		724.81
Interest		162.15
Moth work		2058.73
Collected taxes	\$413239.74	
Collected moth work	1847.18	
Interest	162.15	
Taxes abated	929.92	
Taxes uncollected	57698.38	
Moth work uncollected	211.55	
		\$474088.92 \$474088.92

SUMMARY COLLECTOR'S CASH ACCOUNT, 1924

AMOUNT COLLECTED AND PAID TO TOWN TREASURER

	<i>Taxes</i>	<i>Moth Work</i>	<i>Interest</i>	<i>Total</i>
1921	\$276.93		\$28.94	\$305.87
1922	14114.58	125.25	1269.12	15508.95
1923	40324.16	216.90	1737.98	42279.04
1924	413239.74	1847.18	162.15	415249.07
	\$467955.41	\$2189.33	\$3198.19	\$473342.93

WILLIAM B. CHEEVER

Collector of Taxes

TREASURER'S REPORT

FINANCIAL STATEMENT

Liabilities

Water Bonds, 4% (\$17000 due 1925)	\$43000.00
Water Bonds, 3½% (3000 due 1925)	26000.00
Water Bonds, 4¾% (4000 due 1925)	32000.00
Sewer Bonds, 4% (5000 due 1925)	60000.00
Sewer Bonds, 5% (2000 due 1925)	32000.00
Sewer Bonds, 4¼% (5000 due 1925)	145000.00
High School Loans, 4% (6000 due 1925)	63000.00
Shawsheen Bridge Loan, 4¾% (2500 due 1925)	5000.00
Main St. Loan, 4½% (20000 due 1925)	60000.00
Shawsheen School Bonds, 4¼% (12000 due 1925)	218000.00
Essex Sanatorium Loan, 4½% (7000 due 1925)	70000.00
	\$754000.00

Assets

Cash, General Fund	\$78151.58
Cash, Water Loan	4321.52
Cash, Outfall Sewer	12732.14
Cash, Shawsheen School	7750.14
Cash, McCarthy Land Taking	750.00
Cash, War Bonus Surplus	4299.01
Cash, War Memorial Committee	140.84
Cash, Memorial Hall Library	744.66
	\$108889.89
Uncollected Taxes	67512.06
Uncollected Moth Work	244.20
	\$67756.26
<i>Amount carried forward</i>	\$176646.15

<i>Amount brought forward</i>		\$176646.15
Commonwealth, State Aid	\$288.00	
Commonwealth, Temporary Aid	410.00	
Commonwealth, Mothers' Aid	863.66	
Towns, Mothers' Aid	260.00	
Sewer Assessments	5553.30	
Sinking Funds	46884.05	
Water Rates due Jan. 1, 1925	9929.80	
	<hr/>	\$64188.81
Balance against Town		\$513165.04
		<hr/>
		\$754000.00

GEORGE A. HIGGINS, Treas., in

DR.

Balance, Jan. 1, 1924, General Fund	\$31942.80
Balance, Jan. 1, 1924, Water Loan	6882.97
Balance, Jan. 1, 1924, Main St. Sidewalk	1160.52
Balance, Jan. 1, 1924, Roger's Brook	985.20
Balance, Jan. 1, 1924, Outfall Sewer	8739.53
Balance, Jan. 1, 1924, Shawsheen School	187575.95
Balance, Jan. 1, 1924, McCarthy Land Taking	750.00
Balance, Jan. 1, 1924, Memorial Committee	444.14
Commonwealth, Corporation Tax	65366.40
Commonwealth, Income Tax	33106.03
Commonwealth, Bank Tax	3895.36
Commonwealth, Reimbursement Land Taxes	225.22
Commonwealth, Street Railway Tax	622.35
Commonwealth, Civilian War Poll Tax	1011.00
Commonwealth, Soldiers' Exemption	12.43
Commonwealth, Surplus War Bonus Funds	4299.01
Commonwealth, School Tuition	318.66
Commonwealth, Industrial Schools	105.97
Commonwealth, Mothers' Aid	1364.25
Commonwealth, Temporary Aid	1061.75
Commonwealth, State Aid	386.00
Commonwealth, Tuberculosis Subsidy	309.28
Commonwealth, Moth Work	56.00
Commonwealth, Hawkers' Licenses	112.00
Essex County, Dog Tax	495.66
Andover National Bank, Notes	300000.00
Collector's Department	467955.41
Interest on Taxes	3198.19
Moth Work	2189.33
Board of Public Works, Water Rates	42284.32
Board of Public Works, Service Pipe	7069.78
Board of Public Works, Sidewalks	5564.27
Board of Public Works, Highway	21.15
American Woolen Co., Outfall Sewer	50000.00

Amount carried forward

\$1229510.93

account with the town of Andover

CR.

Orders paid

School Department	\$126459.81
Shawsheen School	179104.51
Town Officers	12150.05
Town House	2975.58
Police Department	18643.61
Fire Department	26551.13
Brush Fires	1274.35
Board of Health	3995.44
Garbage	114.30
Spring Grove Cemetery	7199.90
Printing	1436.50
Insurance	5160.45
Election and Registration	1844.22
Tree Warden	3987.27
Moth Department	5992.81
Street Lighting	10787.13
Highway Department	85523.91
Main St. Sidewalk	879.87
Sewer Dept. Maintenance	5969.40
Sewer Dept. Construction	2920.08
Outfall Sewer	48579.61
Sewer Sinking Fund	1000.00
Poor St. Sewer	5341.00
Magnolia Ave. Sewer	1035.53
Water Dept. Maintenance	33492.17
Water Dept. Construction	17564.81
Water Extension, North St.	19419.28
Almshouse Expenses	7045.83
Outside Relief	5467.11
Mothers' Aid	5617.63
Soldiers' Relief	1303.53
State Aid	288.00
Park Department	1477.34
Playstead	4046.96
Roger's Brook	933.40
Interest	39171.09
Water Loan Bonds	10000.00

Amount carried forward

\$704753.61

GEORGE A. HIGGINS, Treas., in

DR.

<i>Amount brought forward</i>	\$1229510.93
City of Lawrence, Outfall Sewer	2502.27
Sundries, Outfall Sewer	69.95
Sewer Dept., Assessments	787.73
Sewer Dept., Interest on Assessments	150.48
Sewer Dept., Construction	3093.79
Town House, Rentals	869.00
Police Department, Wagon	35.00
Spring Grove Cemetery	
Sale of lots	992.25
Care of lots	1633.00
Interments and use of tomb	783.00
Foundations	167.10
Sale of buildings	400.00
Board of Health, Licenses	24.00
Building Inspector, Elevator Licenses	3.00
Liquor Licenses	2.00
George A. Higgins, Town Clerk's Fees	282.50
Almshouse	344.00
Outside Aid, Reimbursement	249.97
Towns, Mothers' Aid	644.66
Soldiers' Relief, Reimbursement	40.00
School Dept., Continuation School	1286.60
School Dept., Tuition and Supplies	245.00
Trial Justice Court, Fines	357.50
Old Schoolhouse, Ballardvale, Rentals	350.00
Tree Warden, Labor	272.51
Smart & Flagg, Insurance Refund	13.54
Phillips Academy, Street Lighting	460.00
Hay Scales	50.00
Essex Sanatorium Loan	70000.00
Essex Sanatorium Premium and Interest	849.53
Andover National Bank, Interest on Deposits	8045.34
Total	<hr/> \$1324514.65

account with the town of Andover

CR.

<i>Amount brought forward</i>		\$704753.61
Sewer Loan Bonds	\$12000.00	
High School Bonds	6000.00	
Main Street Bonds	20000.00	
Shawsheen Bridge Bonds	2500.00	
Shawsheen School Bonds	12000.00	
Miscellaneous	566.24	
Retirement of Veterans	300.00	
Pomp's Pond Baths	1902.58	
Hay Scales	104.25	
Public Dump	75.00	
Memorial Hall Library	4251.00	
Andover Post, No. 8, American Legion	999.93	
Division of Forestry, Fire Tower	300.00	
War Memorial Committee	140.84	
Memorial Day	550.00	
Post 99, G. A. R.	100.00	
Essex Sanatorium, Maintenance	2882.06	
Essex Sanatorium, Construction	71565.13	
County Tax	18525.60	
Commonwealth, Bank Tax	1094.64	
Commonwealth, Corporation Tax	3.98	
Commonwealth, State Tax	20000.00	
Commonwealth, Highway Tax	4529.33	
Commonwealth, Municipal Audit	480.57	
Andover National Bank, Notes	330000.00	
	<hr/>	
Total Expenditures		\$1215624.76
Balance on hand January 1, 1925		
General Fund	78151.58	
Water Loan	4321.52	
Outfall Sewer	12732.14	
Shawsheen School	7750.14	
McCarthy Land Taking	750.00	
War Bonus Surplus	4299.01	
Memorial Committee	140.84	
Memorial Hall Library	744.66	
	<hr/>	
		108889.89
		<hr/>
		\$1324514.65

Richardson Fund — Shawsheen Village School

DR.		
Balance January 1, 1924	\$1575.46	
Andover Savings Bank, interest	79.72	
	<hr/>	\$1655.18
CR.		
F. Gardner	400.00	
Deposit, Andover Savings Bank	1255.18	
	<hr/>	\$1655.18

Draper Fund — School

DR.		
Balance January 1, 1924	\$1050.62	
Andover Savings Bank, interest	53.15	
	<hr/>	\$1103.77
CR.		
Deposit, Andover Savings Bank	1103.77	
	<hr/>	\$1103.77

Edward Taylor Fund — Fuel

DR.		
Balance, January 1, 1924	\$332.84	
Andover Savings Bank, interest	16.82	
	<hr/>	\$349.66
CR.		
Deposit, Andover Savings Bank	349.66	
	<hr/>	\$349.66

Varnum Lincoln Spelling Fund

DR.		
Balance January 1, 1924	\$556.66	
Andover Savings Bank, interest	27.15	
	<hr/>	\$583.81
CR.		
Henry C. Sanborn, Supt.	20.00	
Deposit, Andover Savings Bank	563.81	
	<hr/>	\$583.81

Isaac Giddings Burial Ground Fund

DR.		
Balance January 1, 1924	\$1000.00	
Andover Savings Bank, interest	50.62	
	<hr/>	\$1050.62
CR.		
Jonathan E. Holt, Trustee	50.62	
Deposit, Andover Savings Bank	1000.00	
	<hr/>	\$1050.62

Dr. Edward C. Conroy School Fund

DR.		
Balance January 1, 1924	\$265.91	
Andover Savings Bank, interest	13.17	
	<hr/>	\$279.08
CR.		
N. C. Hamblin	10.00	
Deposit, Andover Savings Bank	269.08	
	<hr/>	\$279.08

Holt Fund — School

DR.		
Balance, January 1, 1924	\$193.48	
Andover Savings Bank, interest	9.77	
	<hr/>	\$203.25
CR.		
Deposit, Andover Savings Bank	203.25	
	<hr/>	\$203.25

Abbie M. Smart Special Cemetery Fund

DR.		
Andover Savings Bank	\$1097.00	
	<hr/>	\$1097.00
CR.		
George D. Millett	25.00	
Deposit, Andover Savings Bank	1072.00	
	<hr/>	\$1097.00

Cemetery Fund
PERPETUAL CARE

DR.

Balance, Jan. 1, 1924	\$32679.54	
Andover Savings Bank, interest	1705.31	
Deposits for Perpetual Care	3775.00	
	<hr/>	\$38159.85

CR.

Spring Grove Cemetery, for care of lots	708.00	
Private Cemeteries, for care of lots	754.85	
Deposits, Andover Savings Bank	36697.00	
	<hr/>	\$38159.85

AUDITORS' CERTIFICATE

We have examined the accounts of the several town officers and find them correctly cast, with satisfactory vouchers for all payments.

The Funds in hands of the Treasurer have been verified and Bank Balances have been reconciled with Cash Book. Funds in Trust have been verified and accounts of Trustees examined. The accounts of the Tax Collector were examined and collections agree with Treasurer's account. The uncollected taxes were examined but the Auditors were unable to make a correct verification of the Collector's account.

The accounts of the Board of Public Works were examined. The recommendation of the State Auditor in regard to keeping controlling accounts on water bills, etc., has not as yet been followed.

The Town Treasurer has on deposit in the Andover National Bank and cash on hand:

General Fund	\$78151.58
Water Loan	4321.52
Outfall Sewer	12732.14
Shawsheen School	7750.14
McCarthy Land Taking	750.00
Memorial Committee	140.84
War Bonus Surplus	4299.01
Memorial Hall Library	744.66

\$108889.89

JOHN S. ROBERTSON
HARRY SELLARS
LOUIS S. FINGER

Auditors

Subscribed and sworn to before me this 18th day of February,
1925.

CHESTER W. HOLLAND

Notary Public

My Commission expires August 9, 1929

PUNCHARD FREE SCHOOL

REV. C. W. HENRY, *President*

HARRY H. NOYES, *Treasurer and Clerk*

REV. E. VICTOR BIGELOW

MYRON E. GUTTERSON

REV. NEWMAN MATTHEWS

FREDERIC S. BOUTWELL

EDMOND E. HAMMOND

JOHN H. CAMPION

REPORT OF TREASURER

PRINCIPAL FUND AND RESERVE

January 1, 1924		
Cash in Banks	\$11053.22	
Real Estate Mortgages and Bonds	65946.78	
	<u> </u>	77000.00
Reserve — From profit on Bonds		1517.82
		<u> </u>
		\$78517.82

December 31, 1924		
Cash in Banks	\$24013.26	
Real Estate Mortgages and Bonds	54504.56	
	<u> </u>	\$78517.82

INCOME

January 1, 1924		
Cash in Banks	\$1008.91	
Interest	4738.87	
	<u> </u>	\$5747.78

EXPENDITURES

N. C. Hamblin, Principal	\$860.00	
N. C. Hamblin, Travel	10.00	
M. E. Stevens, Instructor	2190.00	
Rogers Agency, Insurance	25.00	
Andover National Bank, Box Rent	5.00	
Andover National Bank, Stamps	1.20	
Andover National Bank, Interest	19.25	
Harry H. Noyes, Treasurer	200.00	
City of Boston, Taxes	120.38	
Expense	7.32	
Cash on hand	2309.63	
	<u> </u>	\$5747.78

BARNARD FUND

10 SHARES UNION PACIFIC R. R. PREF.

Jan. 1, 1924		
Cash in Bank	\$25.50	
Dividends	40.00	
	<hr/>	\$65.50
Prizes Awarded		
First	\$20.00	
Second	12.00	
Third	8.00	
December 31, 1924, Cash on hand	25.50	
	<hr/>	\$65.60

DRAPER FUND

Jan. 1, 1924		
Cash in Bank	\$1436.84	
Dividend	72.70	
	<hr/>	\$1509.54
Scholarship	60.00	
Dec. 31, 1924, Cash in Bank	1449.54	
	<hr/>	\$1509.54

GOLDSMITH FUND

Jan. 1, 1924		
Cash in Bank	\$270.26	
Dividends	13.67	
	<hr/>	\$283.93
Prizes Awarded	10.00	
Dec. 31, 1924, Cash in Bank	273.93	
	<hr/>	\$283.93

HARRY H. NOYES, *Treasurer*

Examined:

J. S. ROBERTSON

HARRY SELLARS

• L. S. FINGER

EDMOND E. HAMMOND

TOWN WARRANT

THE COMMONWEALTH OF MASSACHUSETTS

ESSEX, ss.: To either of the Constables of the Town of Andover,

GREETING:

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in elections and in town affairs to meet and assemble at the designated polling places in Precincts One, Two, Three and Four, viz.: The Town House in Precinct One; the Old School House, Ballardvale, in Precinct Two; the Boys' Club House, Shawsheen Village, in Precinct Three; and the Phillips Club House, School Street, in Precinct Four, in said Andover, on MONDAY, THE SECOND DAY OF MARCH, 1925, at 6 o'clock a.m., to act on the following articles:

Article 1. — To elect a Moderator for one year, Town Clerk for one year,* Treasurer for one year, Collector of Taxes for one year, one member of the Board of Selectmen for three years, one member of the Board of Assessors for three years, three members of the School Committee for three years, one member of the School Committee for one year (to fill vacancy), two members of the Board of Public Works for three years, one member of the Board of Health for three years, three Auditors of Accounts for one year, three Constables for one year, one Trustee of Memorial Hall Library for seven years, one Tree Warden for one year, five Trustees of Punchard Free School for three years, and all town officers required by law to be elected by ballot.

All to be voted for on one ballot. The polls will be open from 6 o'clock a.m. to 5 o'clock p.m.

After final action on the preceding Article one, the said meeting shall stand adjourned by virtue of Section 20, Chapter 39, of the

General Laws, to Monday, March 9th, at 1.30 o'clock p.m. at the Town Hall, then and there to act upon the following articles, namely:

Article 2. — To elect all other officers not required by law to be elected by ballot.

Article 3. — To determine what sums of money shall be appropriated for Almshouse Expenses, Relief out of Almshouse, Aiding Mothers with Dependent Children, Board of Health, Brush Fires, Fire Department, Hay Scales, Highway Department, Insurance, Interest, Memorial Hall Library, Memorial Day, Post 99, G. A. R., Parks and Playsteads, Police, Printing, Election and Registration, Essex County Tuberculosis Hospital Maintenance, Public Dump, Retirement of Veterans, Reserve Fund, Redemption of Water, Sewer, High School, Main Street, Shawsheen Bridge, Essex Sanatorium, and Shawsheen School Bonds, Schools, Sewer Maintenance, Soldiers' Relief, Spring Grove Cemetery, State Aid, Street Lighting, Town Officers, Town House, Tree Warden and Moth Department, Water Maintenance and Construction, Andover Post No. 8, American Legion, and other town charges and expenses.

Article 4. — To see if the Town will authorize the Board of Public Works to extend the water main from the Pumping Station, Lowell Street, to Etalo Belmessiere's residence and appropriate the sum of twenty thousand (\$20,000) dollars therefor, on petition of W. I. Livingston and others.

Article 5. — To see if the Town will appropriate the sum of \$12,000 to make necessary changes in the Water System as recommended by the Fire Underwriters. Said changes to be made on Highland Road, Morton St., Summer St., Abbot St., Pine St., and a new 6-inch main on Pasho St., and the connecting up of several dead ends, on petition of the Board of Public Works.

Article 6. — To see if the Town will vote to build a main sewer on Pasho St. a distance of 772 ft. and also on Haverhill St. a distance of 750 ft. and appropriate the sum of \$5,000 therefor, and assess betterments upon the estates benefited by said extensions. Said work to be done under the direction of the Board of Public Works, on petition of said Board.

Article 7. — To see if the Town will appropriate the sum of \$18,000 to rebuild Elm St., from the North Andover line to a

point at or near Whittier St. Said work to be done only with the understanding that the State assume the remainder of the cost. Also to see if the Town will indemnify the Commonwealth of Massachusetts against any and all claims for land, grade and drainage damages which may be caused by or result from the laying out and construction of State Highway on Elm St. in Andover, and will authorize the Board of Selectmen to sign an indemnity agreement therefor in behalf of the Town, or take any other action in respect thereto, on petition of the Board of Public Works.

Article 8. — To see if the Town will appropriate the sum of \$8,000. to rebuild Haverhill St. from a point near the Boston & Maine underpass to the North Andover line. Said work to be done only under the condition that the State and County each appropriate a like sum for said work, on petition of the Board of Public Works.

Article 9. — To see if the Town will appropriate the sum of \$5,000. together with the unexpended balance appropriated last year under Article 19, for the purpose of making improvements on and in connection with the Playstead. Said improvements to be carried out in accordance with plans drawn by Philip W. Foster, landscape architect, on petition of the Board of Public Works.

Article 10. — To see if the Town will vote to appropriate the sum of \$4299.01, the same being the amount returned to the Town under the provisions of Chapter 480 of the Acts of 1924, "An act providing for the return to the Cities and Towns of certain surplus funds collected to provide suitable recognition of those residents of Massachusetts who served in the Army and Navy of the United States during the war with Germany," for the purpose of playground development, on petition of Ralph T. Berry and others.

Article 11. — To see if the town will appropriate the sum of \$1500. for the purpose of maintaining the swimming area at Pomp's Pond, on petition of John F. O'Connell and others.

Article 12. — To see if the Town will appropriate the sum of \$500. to be used by the Trustees of the Memorial Hall Library in preparing plans for an addition to the present building, on petition of Trustees of Memorial Hall Library.

Article 13. — To see if the Town will vote to purchase the plot of ground on Andover Street, Ballard Vale, used last summer as a playground, and owned by Mrs. H. D. Rockwell of North Andover, the same to be made a permanent public playground, and appropriate a sum of money therefor, on petition of Roy M. Haynes and others.

Article 14. — To see if the Town will authorize the Moderator to appoint a committee of five members including the building inspector to make a complete study of the present building laws and submit a report on changes to bring before the next annual Town Meeting for consideration and action, on petition of Joseph F. Cole and others.

Article 15. — To see what disposition the town will vote to make of the Richardson School property on Lowell Street.

Article 16. — To determine the method of collecting the taxes for the ensuing year.

Article 17. — To authorize the Town Treasurer to hire money for the use of the town in anticipation of the revenue of the current financial year, with the approval of the Selectmen.

Article 18. — To determine what disposition shall be made of unexpended appropriations.

Article 19. — To act upon the report of the Town Officers.

Article 20. — To transact any other business that may legally come before the meeting.

And you are directed to serve this warrant by posting attested copies and publication thereof, seven days at least before the time of said meeting as directed by the By-Laws of the town.

Hereof fail not and make return of this warrant with your doings thereon, at the time and place of said meeting.

Given under our hands this sixteenth day of February, A.D. 1925.

FRANK H. HARDY
CHARLES BOWMAN
ANDREW McTERNEN

Selectmen of Andover.

RECOMMENDATIONS OF FINANCE COMMITTEE

The Finance Committee respectfully presents herewith its report and recommendation. It has been the policy of the Finance Committee to endeavor to keep this year's budget under that of last year. Some departments, notably the School, Fire, and Police, require more money this year because of increases both in personnel and in wage schedules which went into effect after the last annual meeting but were operative over but part of the fiscal year. On the other hand some departments have advised that they require smaller budgets this year.

As has been the custom for several years past the Finance Committee has worked the recommended appropriation figure out in terms of a possible tax rate, but the citizens are again earnestly reminded that tax rates may possibly mean but little. We talk of high tax rates and low tax rates, high valuation and low valuation, but the sum and substance of the whole matter is the amount of money which the citizens gathered at the annual meeting vote to expend. It matters little whether this money is paid from the current tax levy or from the next ten, twenty or thirty tax levies, it's the sum of money which the individuals and corporations must take from their respective pockets and pay over to the town.

This has not been a prosperous year for industrial communities like Andover. Not only has there been serious lack of employment and consequent loss of wages, but a large number of our citizens have been deprived of substantial income from their investment in local industries, so that the depression has been felt by all. To increase the burden of taxation at this time is to seriously delay the return of industrial prosperity. There need be no parsimony; ample provision has been made in these recommendations to carry on all departments in proper fashion,

but on the other hand everything possible should be done by the citizens of Andover to coöperate in the nation-wide effort to reduce the burden of taxation. Once more we urge a careful examination and study of the special articles in the warrant in order that the decisions made in regard to them may be wise and prudent.

Included in this report is a table showing the debt situation in Andover over a period of eight years. This tabulation shows the net funded debt, the valuation, the per centum of debt to valuation, and the relative place of Andover among other towns in the state of over five thousand population.

Almshouse	\$7500.00
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An increase of \$500 over last year's recommendation is suggested in order that certain needed alterations and repairs can be made.

Relief out	6000.00
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Aiding Mothers with Dependent Children	6000.00
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Board of Health	5000.00
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This is an increase of \$1000 over last year's appropriation and is necessary because of the increased cost of caring for Andover's patients at the Middleton Sanatorium.

Brush Fires	1000.00
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Election	600.00
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The substantial decrease in this item is due to the fact that we have but one election in Andover this year.

Essex County Hospital	2956.72
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Fire Department	29000.00
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This increase of \$2400 in the Fire Department budget is in the item of wages. It was voted at the last annual meeting to employ a permanent chief, to add two men to the force and make the wage scale \$35 per week per man.

G. A. R.	100.00
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Hay Scales	125.00
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Highways	59000.00
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<i>Amount carried forward</i>	<i>\$117,282.72</i>
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Amount brought forward

\$117,282.72

It is recommended that the town spend \$85000 on streets for the year. Of this sum it is understood that \$45000 will be used for upkeep and snow removal and \$40000 for new construction. This is the total sum expended last year. Of the \$40000 recommended for new construction, it is recommended that \$18000 be spent on Elm street and \$8000 on Haverhill street in conjunction with the Massachusetts Dept. of Public Works as described in a special article in the warrant.

Interest	37500.00
Insurance	6500.00
Library	4500.00
Memorial Day	550.00
Parks	1800.00

A small increase is recommended in this item to cover the cost of moving the bleachers on the playstead.

Police	20000.00
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This department was authorized one new officer last year and an increase of wages. The increase of \$1750 in this item is to cover the cost of these changes.

Printing	1600.00
Public Dump	150.00
Reserve Fund	3000.00
Retirement of Bonds	68500.00
Retirement of Veterans	300.00
Schools	130280.00

This item has increased \$4665 and as in the case of the Fire and Police Departments, the increase is due to advancing wages.

Sewer Department	5000.00
Soldiers' Relief	2000.00
Sealer of Weights	450.00

Amount carried forward

\$399,412.72

Amount brought forward

\$399412.72

It has been found necessary to purchase new equipment for this officer in the amount of approximately \$200.

Spring Grove Cemetery

6000.00

An additional sum of \$800 over what was spent last year is recommended for the use of the Cemetery Trustees in order that another section of Spring Grove may be prepared for cemetery purposes.

State Aid

500.00

Street Lighting

11000.00

Municipal Buildings

5300.00

It is now imperative that certain repair work shall be done at the Town House. This repair work includes painting the upper hall and replacing much of the piping about the building. An increase of \$2300 over last year's item is recommended for this work.

Town Officers

13000.00

An increase of \$840 is recommended over the sum appropriated last year. This sum is required for extra work connected with renumbering streets and added valuation work.

Tree Warden

9000.00

Moth Work

\$5000.00

Tree Warden

4000.00

In the judgment of the Finance Committee, the appropriation for moth work can be reduced at this time. The Town has been exceedingly generous in its appropriation for this department and the moth peril is very greatly decreased. The sum of \$5000 is the amount which the state directs Andover to expend.

Water Department

Maintenance

\$31000.00

Construction

12000.00

American Legion

1000.00

\$488212.72

The Finance Committee recommends the following action regarding the articles in the warrant: —

Article 4. To see if the Town will authorize the Board of Public Works to extend the water main from the Pumping Station, Lowell Street, to Etalo Belmessiere's residence and appropriate the sum of twenty thousand (\$20,000) dollars therefor, on petition of W. I. Livingston and others.

(Not approved — This same article appeared in the warrant last year and was rejected by the voters at the annual meeting. The Finance Committee reaffirms the position taken last year and fully described in the last report.)

Article 5. To see if the Town will appropriate the sum of \$12,000. to make necessary changes in the Water System as recommended by the Fire Underwriters. Said changes to be made on Highland Road, Morton St., Summer St., Abbot St., Pine St., and a new 6-inch main on Pasho St., and the connecting up of several dead ends, on petition of the Board of Public Works.

(Approved — This article calls for the expenditure of \$12,000 to be spent in the improvement of our water system. The Board of Public Works has made a complete survey of the water system and will recommend from year to year the necessary changes and extensions which appear advisable.)

Article 6. To see if the Town will vote to build a main sewer on Pasho St. a distance of 772 ft. and also on Haverhill St. a distance of 750 ft. and appropriate the sum of \$5,000 therefor, and assess betterments upon the estates benefited by said extensions. Said work to be done under the direction of the Board of Public Works, on petition of said board.

(Approved — These additions to the sewer system should be made at this time. The line on Pasho street will serve a new residence section in the center of the Town, and the recommendation to lay the Haverhill street addition is made in view of the intention to rebuild this street this year as suggested in Article 8.)

Article 7. To see if the Town will appropriate the sum of \$18,000 to rebuild Elm St. from the North Andover line to a point at or near Whittier St. Said work to be done only with the understanding that the State assumes the remainder of the

cost. Also to see if the Town will indemnify the Commonwealth of Massachusetts against any and all claims for land, grade and drainage damages which may be caused by or result from the laying out and construction of State Highway on Elm St. in Andover, and will authorize the Board of Selectmen to sign an indemnity agreement therefor in behalf of the Town, or take any other action in respect thereto, on petition of the Board of Public Works.

(Approved.)

Article 8. To see if the Town will appropriate the sum of \$8,000 to rebuild Haverhill Street from a point near the Boston & Maine underpass to the North Andover line. Said work to be done only under the condition that the State and County each appropriate a like sum for said work, on petition of the Board of Public Works.

(Approved — The Finance Committee recommends the adoption of Articles 7 and 8. A cement road has been laid in North Andover to the Andover line on Elm street and the proposed construction as set forth in Article 7 would extend the cement road to the vicinity of Whittier street. The proposed construction on Haverhill street will make possible a good thoroughfare from Lowell through Shawsheen Village to the Salem Turnpike and Haverhill. The arrangements to do this work in conjunction with the State and County are altogether to the advantage of the Town of Andover.)

Article 9. — To see if the Town will appropriate the sum of \$5000 together with the unexpended balance appropriated last year under Article 19, for the purpose of making improvements on and in connection with the Playstead. Said improvements to be carried out in accordance with plans drawn by Philip W. Foster, landscape architect, on petition of the Board of Public Works.

(Last year the Finance Committee recommended that the Board of Public Works make a careful and comprehensive study of the Playstead. The Board has done this and as a result of this study recommends that the town begin at once the work of developing this property for larger recreation purposes.

This article places before the citizens the Playstead proposition. The Finance Committee does not pass on the advisability of this development according to the plan cited in the article or according to any other plan. We do, however, recommend that whatever policy the town adopts shall be based on a full and complete understanding of the entire problem and its possibilities, and a description of this policy should include an estimate of prospective total costs and maintenance charges. If the Town decides to develop this plot for playground purposes according to this or some other plan a sum of not less than \$15000 should be the initial expenditure for necessary drainage and grading.)

Article 10. To see if the Town will vote to appropriate the sum of \$4299.01, the same being the amount returned to the Town under the provisions of Chapter 480 of the Acts of 1924, "An act providing for the return to the Cities and Towns of certain surplus funds collected to provide suitable recognition of those residents of Massachusetts who served in the Army and Navy of the United States during the war with Germany," for the purpose of playground development, on petition of Ralph T. Berry and others.
(Approved — It is the understanding of the Finance Committee that part of this sum will be used to purchase parcels of land adjoining the playstead.)

Article 11. To see if the town will appropriate the sum of \$1500 for the purpose of maintaining the swimming area at Pomp's Pond, on petition of John F. O'Connell and others.
(Approved — A large number of people are availing themselves of the facilities of this swimming area at Pomp's Pond and it is very desirable that the opportunity for this recreation be continued.)

Article 12. To see if the Town will appropriate the sum of \$500 to be used by the Trustees of the Memorial Hall Library in preparing plans for an addition to the present building, on petition of Trustees of Memorial Hall Library.
(Approved — The facilities at the Memorial Hall Library are today, and have been for some years, entirely inadequate. The Finance Committee recommends that the sum of \$500 be appropriated for the use of the Library Trustees in order

that the situation in regard to the building may be examined and described.)

Article 13. To see if the Town will vote to purchase the plot of ground on Andover Street, Ballard Vale, used last summer as a playground, and owned by Mrs. H. D. Rockwell, of North Andover, the same to be made a permanent public playground, and appropriate a sum of money therefor, on petition of Roy M. Haynes and others.

(Approved — With the recommendation that \$500 be appropriated for this purpose.)

SUMMARY

Department expenditure recommended	\$488212.00
Special expenditure recommended	49799.01
State and County Taxes (estimated)	50000.00
<hr/>	
Total	\$588011.01
Receipts (estimated)	150000.00
<hr/>	
Net	\$438011.01

VALUATION

1924	1925 (est.)
\$16,908000.00	\$17000000.00

Computation of tax rate for 1925, using these figures

$$\frac{\$438011.01}{\$17000000.00} = \$25.76$$

Tax rate 1924, \$27.70.

Respectfully submitted,

HENRY A. BODWELL, *Chairman*

GEORGE L. AVERILL IRVING SOUTHWORTH
WILLIAM C. CROWLEY GEORGE H. WINSLOW
CHESTER W. HOLLAND JOHN C. ANGUS, *Secretary*

Finance Committee

DEPARTMENT APPROPRIATION AND EXPENDITURE FOR 1924
AND RECOMMENDATION FOR 1925

<i>Department</i>	<i>Appropriated 1924</i>	<i>Expended 1924</i>	<i>Recommended</i>	<i>Increase</i>	<i>Decrease</i>
Almshouse	\$7000	\$7045.83	\$7500	\$500	
Relief Out	6000	5467.11	6000		
Aiding Mothers	7000	5617.13	6000		1000
Board of Health	4000	3995.44	5000	1000	
Brush Fires	1000	1274.35	1000		
Elections	2200	1844.22	600		1600
Essex Hospital	2883	2882.06	2957		
Fire Dept.	26600	26551.13	29000	2400	
G. A. R.	100	100	100		
Hay Scales	125	104.25	125		
Highways	80000	85523.91	*59000		*21000
Interest	41600	39171.09	37500		4100
Insurance	6500	5160.45	6500		
Library	4500	4251.00	4500		
Memorial Day	550	550	550		
Parks	1500	1477.34	1800	300	
Police	18250	18643.61	20000	1750	
Printing	1500	1436.50	1600	100	
Public Dump	150	75.00	150		
Reserve Fund	3000		3000		
Retirement of Bonds	62500	62500.00	68500	6000	
Retirement of Veteran	300	300.00	300		
Schools	126515	126459.81	130280	4665	
Sewer Dept.	6000	8889.48	5000		1000
Soldiers' Relief	2000	1303.53	2000		
Sealer of Weights	250	250.00	450	200	
Spring Grove	5200	7199.90	6000	800	
State Aid	500	288.00	500		
Street Lighting	11000	10787.13	11000		
Town House	3000	2975.58	5300	2300	
Town Officers	12160	12150.05	13000	840	
Tree Warden	10000	MOTH 5992.81 TREE 3987.27	MOTH 5000 TREE 4000		1000
Water Dept.					
Maintenance	33500	33492.17	31000		2500
Construction	15000	17564.81	12000		3000
American Legion	1000	999.93	1000		
Totals	\$503383	\$505330.81	\$488212	\$20855	\$35200

*26000 is recommended for Highways, under a special article.

DEBT OF THE TOWN OF ANDOVER IN RELATION TO VALUATION
1917-1924 INCLUSIVE

	<i>Net Funded Debt</i>	<i>Valuation*</i>	<i>% of Debt to Valuation</i>	<i>Rank in State†</i>
1917.....	325284.99	7817260. 00	4.2	11
1918.....	291110.71	8017700.00	3.6	16
1919.....	258094.35	8487400.00	3.	24
1920.....	269803.51	10090066.00	2.6	29
1921.....	262124.72	10978620.00	2.4	31
1922.....	371584.99	11968320.00	3.1	36
1923.....	732316.00	14824470.00	4.9	x
1924.....	707000.00	16809242.00	4.2	x

* Does not include property owned by the town.

† Among towns of 5000 inhabitants or over.

x Figure not available.

TRUSTEES OF MEMORIAL HALL LIBRARY

E. KENDALL JENKINS	ALFRED E. STEARNS
FREDERIC S. BOUTWELL	BURTON S. FLAGG
NATHAN C. HAMBLIN	FREDERICK A. WILSON
PHILIP F. RIPLEY	

President

E. KENDALL JENKINS

Secretary and Treasurer

FREDERIC S. BOUTWELL

Librarian

EDNA A. BROWN

Assistants

JULIA E. TWICHELL

EDITH DONALD

In Charge of Ballardvale Branch

MARTHA D. BYINGTON

Janitor

ARCHIBALD MACLAREN

REPORT OF TRUSTEES OF MEMORIAL HALL LIBRARY

Usefulness is the measure of efficiency in any library. Circulation is the best test. An unusually high per cent — forty-four per cent — of Andover's membership are card holders in the Memorial Library, which is constantly changing its adjustments to meet the changing conditions of modern life.

It is supplementing the work of the public school system. The young people are using its facilities as never before and it is rapidly becoming one of the most important educational forces in Andover.

The one best available source for the young voter to get a clearer comprehension of his civic duties is here.

Books have been over-done, like all good things, — and under-done. Selection is vital. The tested results of our reading, as shown in our conduct, are greater usefulness to the community, more faithfulness in our tasks, more tolerance of differing views, a happier life and more agreeable people with whom to live. The proof of the reading is in the doing, whether we have read two or two thousand books.

When freedom of speech and freedom of thought, when liberty and democracy seem at times in jeopardy, we need the best books to feed our youth.

The Trustees ask for Andover youth the best that the town can give. The present facilities are cramped. Enlarging opportunities cannot be assumed. The town is the sufferer. More Andover citizens are informally discussing the library facilities than ever before. The children are crowding in beyond accommodations and require more ample quarters.

Public opinion in the town is being aroused to the situation.

Shall the basement be arranged for enlarged accommodation?

Shall an addition be erected at the north?

Shall two wings be added to the main building?

Shall the third story be removed and the art gallery thereby be made more available for those who wish its use? Today the long and steep stair climb prevents its use to any considerable extent.

The Librarian well senses the situation and with clearness and vision outlines it in the appended report.

When Goethe, that prince of German Literature, was dying, his last words were, "Open the shutters and let in more light!"

Our past history is but a call for further light. We seek further light today. The citizens of Andover are awake to the situation. Steps must be at once taken to confer with the State Commission whose members have wide knowledge of library buildings. Careful study must be made of local conditions and future prospects.

More ample facilities are imperative. Enlargement is a pressing need.

What will the town do?

E. KENDALL JENKINS, *Chairman*
REV. FREDERICK A. WILSON
FREDERIC S. BOUTWELL
NATHAN C. HAMBLIN
PHILIP F. RIPLEY
ALFRED E. STEARNS
BURTON S. FLAGG

TRUSTEES OF MEMORIAL HALL LIBRARY
In Account with the Town of Andover, Mass.

RECEIPTS

Balance from last year	\$2348.58
Town Appropriation	4500.00
Dog Tax	495.66
Income from Investments	3366.50
Fines	267.12
Gifts	645.81
Repaid for lost books	17.25
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Total	\$11640.92

EXPENDITURES

Salaries	\$5261.32
Lighting and Heating	836.26
Periodicals	340.65
Book-binding	370.70
New fence and repairs on old one	261.57
Repairs on building	342.64
Repairs on furniture	93.02
Insurance	77.73
Books	759.91
Office Expenses	110.49
Supplies and sundry items	269.31
Investment — Book Fund	600.00
Cash on hand	2317.32
<hr/>	
Total	\$11640.92

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Classification of Income and Expenditures for the Year 1924

INCOME

	<i>Maint.</i>	<i>Books</i>	<i>Cornell</i>	<i>Total</i>
Income from Investments	\$2136.48	\$874.52	\$355.50	\$3366.50
Appropriation	4500.00			4500.00
Dog Tax	495.66			495.66
Fines	267.12			267.12
Cash paid for lost books		17.25		17.25
Gifts for books		45.81		45.81
	<hr/>	<hr/>	<hr/>	<hr/>
	\$7399.26	\$937.58	\$355.50	\$8692.34

EXPENDITURES

Salaries	\$5138.95		\$122.37	\$5261.32
Lighting and Heating	724.26		112.00	836.26
Periodicals	340.65			340.65
Bookbinding	370.70			370.70
Repairs on Library Property	697.23			697.23
Office Expenses	110.49			110.49
Insurance	77.73			77.73
Books		759.91		759.91
Supplies and sundry items	269.31			269.31
	<hr/>	<hr/>	<hr/>	<hr/>
	\$7729.32	\$759.91	\$234.37	\$8723.60
Unexpended balances		177.67	121.13	
Deficits	\$330.06			\$31.26

Funds and Unexpended Income January 1925

	<i>Funds</i>	<i>Income</i>
Maintenance Fund	\$46600.00	\$699.75
Book Funds	18000.00	1223.63
Cornell Fund (Permanent)	5000.00	408.50
Cornell Fund (Purchase)	4617.39	1030.35
Special Funds and cash		354.59
	<hr/>	<hr/>
Total	\$74217.39	\$3017.07
Deficit in Maintenance Income		699.75
		<hr/>
		\$2317.32

SECURITIES

Bangor & Aroostook R.R., 4s	\$11000.00
Boston Elevated Ry. Co., 4s	10000.00
Boston Elevated Ry. Co., 4½s	1000.00
Chicago Railways Co., 5s	9962.50
Montreal Tramways Co., 5s	9962.50
Southern Cal. Edison Co , 5s and 5½s	7939.85
Boston & Maine R.R., 4s	2000.00
Pacific Tel. & Tel. Co. 5s	1000.00
New Eng. Tel. & Tel. Co. 5s	989.00
Louisville Gas & Electric Co., 5s	915.00
Dayton Power & Light Co., 5s	940.00
Utah Power & Light Co., 6s	1030.00
Am. Tel. & Tel. Co., 4 shares	571.50
Savings Banks	16617.39
Principal Cash	289.65
	<hr/>
	\$74217.39

FREDERIC S. BOUTWELL

Treasurer

February 2, 1925

This certifies that we have examined and found correct the securities above listed and the income accruing therefrom.

The expenditures in this department are now paid by the Town Treasurer and all bills are audited by the Town Auditors.

BURTON S. FLAGG

PHILIP F. RIPLEY

Finance Committee

REPORT OF THE LIBRARIAN

To the Trustees of the Memorial Hall Library:

GENTLEMEN:

I herewith submit the report of the library for the twelve months ending December 31, 1924.

During the year we have issued for home use 50,367 books, an increase of 3,178 over the number borrowed in 1923. This increase was almost wholly at the main library, that at Ballardvale being only 59 volumes. These statistics of circulation are interesting, since they show the largest use of books, with the exception of one year, in the history of the library. During 1921, we circulated 51,113 volumes. That was a year of rather unusual conditions, due to post-war adjustments, and the use of the library during the twelve months just past has been more normal and represents a steady growth which is not likely to fall back to any great extent. More and more our library is taking its place as an educational institution, supplementing the schools and often providing older people with their only means of furthering an education which stopped prematurely. For this reason we welcome especially the boys and men who form a large and earnest proportion of our readers.

The registration during the year has been large, 503 new borrowers having been added to our list. The number of cards actually in use is 3,623, which is 44% of our population. This is considerably above the average record for a town, 30% being generally accepted as a satisfactory use of the library. Our list of borrowers is carefully revised at the close of each year, so that it is not padded but represents the number of people who actually use our library.

We have as usual to acknowledge valuable gifts from various townspeople. It is a great help to have an interesting biography

or a good story passed on to others. Not only does it give enjoyment to persons whom the giver never knew, but it sets free just that much money for the purchase of more books. And a library can no more succeed without new books than any business can be conducted without fresh stock.

At Ballardvale, a group of young girls composing the Sewana Club held a sale and gave to the branch library the amount realized, with the request that it be spent for girls' books. Thirty-three volumes were bought and have been much appreciated by the girls of the village.

This year we have purchased rather extensively and with apparent success from bargain booklists. In this way we have picked up a number of valuable books published at prices otherwise beyond our means.

The repairing of the iron fence and the erection of a new section on the portion of the wall toward Essex Street has given great satisfaction. It is probable that no improvement to the building or grounds has ever met with such universal and outspoken approval.

One of the solid satisfactions of library work is that done with the schools. Each year it seems as though no more could be done, and each year more is done. The splendid use made of the library by the school children, and particularly by the Punchard pupils, gives genuine pleasure to the library staff. The customary lectures to the sophomores on the use of reference books, met this fall, with more than the usual whole-hearted enthusiasm. The boys especially, were so interested that it was difficult to induce them to go back to school at the end of a too-short hour. The librarian has been asked if these lectures may not be heard by people past school age. There is no objection whatever, if any such wish to breakfast early and come to the library at eight, which is the only hour available.

Scarcely a day passes during term time when messengers or notes do not appear for books wanted in some school-room. The parochial school and the two academies are included among those who turn to the Memorial Hall Library for books or help. This year, practically every book on the use and observance of Christmas was out of the library by the fifth of December. We could not fill the requests for Christmas plays.

There is an important point in which your librarian feels that the library fails to meet a legitimate demand, and that is in the work with the Normal School students. Andover girls who are day scholars in Salem and Lowell are unable, because of their home residence, to use the school library for their assigned reading. It is a matter of plain mortification to have a long list of books presented us and to be able to furnish but a few. To help these students as we should like, and as they have a right to expect, we must have, not only many more of the newer educational and scientific books, but space for them to be shelved.

The celebration this fall of Good-Book Week for Children took the form of reading for the State certificates awarded by the Massachusetts Board of Education. They issued a selected list of books, covering grades from the fourth to the eighth. Any child reading five approved books and submitting in writing a brief review of the five, was awarded a certificate, signed by the librarian, the Commissioner of Education and the Director of the Public Library Commission. Interest in the contest ran high and teachers reported such enthusiasm, that the time for winning the certificates, originally planned for November, had to be extended through the year, simply because there were not enough books for the children who wanted to read them. To date, seventy-one certificates have been issued, but the children are so interested that they are to keep on and see whether they can secure two or more certificates.

The question of the children presents the usual problem of insufficient space, an inadequate number of books and children eager for all that we can give them. During the past two summers, the town has been slowly awaking to a public recognition of the young people's claim to legitimate play and recreation. It is a long step in the right direction. An amount equal to the money needed to supervise for a few brief summer weeks, the beach at Pomp's Pond, would go far toward providing a special room for children at the Memorial Hall Library, a room which would be useful the year round, open every day, winter or summer. There are many children in Andover who have no quiet place to prepare home lessons. Night after night sees the library tables surrounded by children, who have brought school books and pencils, to study undisturbed. A room to themselves, open at certain hours, with

a person to give them full time and attention, would mean an incalculable benefit to these children, who now have to put up with scant accommodation and such odd moments as can be spared from other work. Your librarian feels very strongly that the children and the young people are fundamentally the most important users of the library, because they represent the real future of the town.

The steady use of the library is of course, gratifying to both librarian and Trustees, but the very fact that it is so much used brings with it the responsibility to make it meet more fully the requirements of the town. The need for a children's room cannot be too much emphasized. The fact that we cannot meet the demands made upon us points the way to better service. Just because we are doing so much, the public expects even more. It is not merely entertaining reading they request, although this has its legitimate place on our shelves; it is books for vocational and educational use, for help with planning entertainments and study programmes, in real self-improvement. The demands made of us are in themselves compliments, because they show that we have gained a reputation for helpfulness that has grown beyond our resources. Technical books get out of date with dismaying rapidity, methods of education change, and prices of books do not go down.

It is generally estimated that one dollar per person of the population in any community, large or small, represents the proportion of public money which should fairly go for the adequate support of the public library. Surely, were it a subscription library, — not free, — its users would count one dollar a small fee to pay for the privilege of using its books for twelve long months. There are a few towns in Massachusetts which have reached the point of appropriating this proportion for their public libraries. What could the Memorial Hall Library do were such good fortune to come its way?

First, it would have a separate room for the children, preferably by building out toward the north.

Secondly, it would enlarge the collection of children's books, and replace by new copies, many which are badly worn.

Thirdly, it would plan for greater helpfulness to teachers and

Normal School students, and for special shelves where they might reserve books for class use.

Fourthly, it would buy many more new books, especially of a technical and scientific nature.

Fifthly, it would try in every possible way to enlarge its work for the entire community.

Is a dollar a year per person a large amount to pay for such service?

Respectfully submitted,

EDNA A. BROWN,

Librarian.

STATISTICS OF THE LIBRARY

Number of books issued at the Memorial Hall	43817
Number of books issued at Ballardvale	6550
Total for 1924	50367
Number of borrowers' cards actually in use	3623
Books added by purchase	508
Books added by gift	116
Total additions	624
Books withdrawn, worn out, etc.	660
Total number of books in library	26307
Volumes rebound	304
Volumes bound, periodicals, etc.	38

BALLARDVALE BRANCH

Number of books issued for home use	6550
Books added by purchase	33
Books added by gift	42
Total additions	75
Books now belonging to the branch	1931

GIFTS

Gifts of books and pamphlets are acknowledged from state and government departments, from other libraries, from the A. V. I. S., from the Sewana Club of Ballardvale, and from the following individuals:

Mrs. George Abbot; Rev. C. N. Bartlett; F. E. Batcheller; Mrs. Walter Buck; George Carmichael; C. L. Carpenter; M. W. Colquhoun; Mrs. A. E. Foote; J. C. Graham; Mrs. E. R. Green; Rev. C. W. Henry; Miss A. C. Jenkins; Mrs. Andrew Lawrie; G. D. Millett; Miss M. W. Packard; Rev. Frederic Palmer; Mrs. Frederic Palmer; A. L. Ripley; G. B. Ripley; David Shaw; Mrs. Myrtle Southworth; Mrs. T. D. Thomson; Dr. Roger Tracy; Miss M. G. Whittemore.

INFORMATION FOR USERS OF THE LIBRARY

The Memorial Hall Library is open every day except Sundays and legal holidays from 9 to 12.30 in the morning, and from 3 to 9 in the afternoon and evening.

Any resident of Andover over ten years of age may have a library card upon filling out an application blank. Children in grades below the Punchard School are required to have their applications endorsed by both parent and teacher.

All grown people are allowed to take any reasonable number of books, provided that only one is a seven-day book. The Punchard pupils are permitted to borrow two, one fiction and one non-fiction.

Books are issued for fourteen days, *the date upon which the book is due* being stamped plainly on the "date due" slip at the time of issue. A book kept overtime incurs a fine of two cents for every day overdue. A few of the books most in demand are issued for seven days only. All these are labeled upon the book pocket, "Seven-day book." Books lost or damaged must be paid for.

Seven-day books are not renewed or reserved for anyone. Other books may be renewed if no one else has asked for them, and if a work not fiction is especially desired for any serious purpose, notice of its return to the library will be sent on request.

The shelves of the whole library are open to all grown people. The books are arranged according to subjects, and it is often much more satisfactory to go to the shelves and examine the books than to depend upon the catalogue.

The new books are listed at intervals in the weekly paper, and cumulated in the yearly library report, but the only complete record is the card catalogue. This catalogue is arranged alphabetically like a dictionary. To find whether any given book is in the library, look for it under the surname of the author, or under its title. The right-hand drawers of the case contain a second

arrangement of cards where the books are entered according to the subjects of which they treat.

The new books purchased each month are placed for some weeks in a special case on the north side of the reading room, so that the most recent additions to the library may be found there. The library buys only a limited amount of new fiction but it tries to fill the wants of the community in regard to other books desired. People are invited to suggest for purchase the titles of books they wish.

The library staff is always glad to answer questions or in any way to help visitors find what they want.

LIST OF PERIODICALS AND NEWSPAPERS TAKEN FOR THE READING ROOM

American city
American Legion weekly (gift)
American monthly review of reviews
Atlantic monthly
Blackwood's magazine
Bookman
Book review digest
Catholic world
Century
Christian Endeavor world (gift)
Country gentleman
Country life in America
Cumulative book index
Etude
Federation topics (gift)
Forum
Garden magazine and Home builder (gift)
Guide to nature (gift)
Harper's magazine
House beautiful (gift)
India rubber world (gift)

International studio (gift)
Ladies' home journal
Library journal
Life
Literary digest
Littell's living age
London weekly Times
Missionary review of the world
National geographic magazine
Nineteenth century
North American review
Open road
Outdoor recreation
Outlook
Popular mechanics
Public libraries
Radio news
Readers' guide to periodical literature
St. Nicholas
School arts magazine
Scientific American
Scribner's magazine
Survey
Textile world (gift)
The Woman citizen
Woman's home companion
World's work
Youth's companion
Andover Townsman
Boston Herald
Boston Transcript
Christian Science Monitor
Lawrence Telegram
New York Times

NEW BOOKS ADDED DURING 1924

State and government documents are not listed. Duplicates, replacements and books for the Ballardvale branch are also omitted.

*(Books marked * are gifts)*

GENERAL REFERENCE BOOKS

- | | |
|------------|--|
| 352 A51 | American City magazine. Municipal index. |
| 378 C68 | College blue book, v. 1. |
| 664 W21 | Ward, Artemus, comp. Encyclopedia of food. |
| 423 V83 | Vizetelly & De Bekker. Desk book of idioms, etc. |
| 920.04 W62 | Who's who, 1923. |
| 929 V83 | Vital records of Salem, v. 3-4. |

PERIODICALS

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| 051 R32 | American monthly review of reviews, v. 68, 69. |
| 071 A552 | Andover Townsman, v. 36. |
| 051 A881 | Atlantic monthly, v. 132, 133. |
| 052 B56 | Blackwood's magazine, v. 214, 215. |
| 051 B64 | Bookman, v. 58, 59. |
| 051 C33 | Century, v. 106, 107. |
| 051 F77 | Forum, v. 70, 71. |
| 716 G16 | Garden magazine, v. 37-39. |
| 051 H23 | Harper's magazine, v. 147, 148. |
| 705 H81 | House beautiful, v. 54, 55. |
| 705 I61 | International studio, v. 77, 78. |
| 020.5 L61 | Library journal, v. 48. |
| 051 L71 | Littell's living age, v. 318-321. |
| 910.5 N21 | National geographic magazine, v. 43, 44. |
| 052 N62 | Nineteenth century, v. 94, 95. |
| 051 N81 | North American review, v. 218, 219. |
| 051 O94 | Outlook, v. 134-136. |
| 621 P81 | Popular mechanics, v. 40, 41. |
| 020.5 P96 | Public libraries, v. 28. |
| 051 S147 | St. Nicholas, v. 50, pt. 2., v. 51, pt. 1. |
| 605 S416 | Scientific American, v. 129, 130. |
| 051 S434 | Scribner's magazine, v. 74, 75. |
| 051 W89 | World's work, v. 46. |

ETHICAL AND RELIGIOUS BOOKS

(Purchased chiefly from the Phillips Fund)

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| 280 A87 | Atkins, G. G. Modern religious cults and movements. |
| 248 B65 | Bosworth, E. I. What it means to be a Christian. |

- 230 B81w Brown, C. R. Why I believe in religion.
 174 B89 Bureau of vocational information. Training for the professions.
 150 B93 Burnham, W. H. The normal mind.
 260 C12 Calkins, Raymond. Christian church in the modern world.
 264 C88 Crum, Mason. Guide to religious pageantry.
 793 F31 Federal council of the Churches in Christ. Religious dramas.
 220 F78 Fosdick, H. E. Modern use of the Bible.
 170 F78 Fosdick, H. E. Twelve tests of character.
 231 G66 Gore, Charles, bp. Belief in God.
 230 G66 Gore, Charles, bp. Holy spirit and the church.
 230 G66n *Gore, Charles, bp. The new theology and the old religion
 150 G82 Green, G. H. The mind in action.
 173 G91 Groszmann, M. P. E. Parents' manual. 2v.
 147 H11 *Haeckel, Ernst. Riddle of the universe.
 232.9 H25 Hartt, R. L. The man himself.
 174 H31 Hawsworth, Hallam. What are you going to be?
 793 H65 Hobbs & Miles. Six Bible plays.
 150 H88 Humphrey, George. Story of man's mind.
 204 I45 Inge, W. R. Outspoken essays.
 248 I45 Inge, W. R. Personal religion and the life of devotion.
 230 J13 Jacks, L. P. Religious perplexities.
 220.92 J35 Jefferson, C. E. Character of Paul.
 231 K58 King, Basil. Discovery of God.
 237 M75 Moore, C. H. Pagan ideas of immortality.
 252.08 N48 Newton, J. F. ed. Best sermons, 1924.
 232.1 P18 *Palmer, Frederic. The virgin birth.
 230 P23 Parks, Leighton. What is modernism?
 266 P27b Patton, C. H. Business of missions.
 150 P61m Pierce, Frederick. Mobilizing the mid-brain.
 173 P61 Pierson, C. D. Living with our children.
 289.9 S43 Sears, C. E. Days of delusion.
 261 S63w *Slattery, Margaret. When you enlist.
 150 S65 Smith & Guthrie, General psychology in terms of behavior.
 150 S79 Starch, Daniel. Educational psychology.
 296 S83 *Sterling, Ada. Jew and civilization.
 131 W169 Walsh, W. S. Mastery of fear.

BUSINESS AND ECONOMICS

- 658 B93 Burnham, A. C. Building your own business.
 658 J62 Johnson, Edith. To women of the business world.
 371.9 J72 Jones, L. C. Piney Woods and its story.
 330 K64 Korzybski, Alfred. Manhood of humanity.
 395 L47 Learned, E. C. Everybody's complete etiquette.
 336 M48 *Mellon, A. W. Taxation the people's business.
 331 R59 *Rockefeller, J. D. Jr. Personal relation in industry.

FARM AND HOME MANAGEMENT

- 641 A42 Allen, L. G. Choice receipts for clever cooks.
 631 B63 Bogart, E. L. Economic history of American agriculture.

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| 641 C35o | Chambers, M. D. One-piece dinners. |
| 643 C35 | Chambers, M. D. Book of unusual soups. |
| 632 C64 | Cockerham, K. L. Manual for spraying. |
| 640 F18e | Fales, Winnifred. Easy housekeeping book. |
| 716 H79c | Hottes, A. C. Little book of climbing plants. |
| 716 H79 | Hottes, A. C. Little book of perennials. |
| 645 I95 | Ives, F. W. Home conveniences. |
| 636.7 L54 | Lemmon, R. S. The puppy book. |
| 636 L55 | Leonard, J. L. First aid to animals. |
| 716 O77 | Ortloff, H. S. Garden bluebook of annuals and biennials. |
| 646 R51 | Rittenhouse, Anne. The well-dressed woman. |
| 645 S43 | Seal, E. D. Furnishing the little house. |

SCIENCE, MECHANICAL AND USEFUL ARTS

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|------------|---|
| 540 A72 | Armstrong, E. F. Chemistry in the twentieth century. |
| 654 C69r | Collins, A. F. Radio amateur's handbook. |
| 575 D52 | Dawson, Marshall. Nineteenth century evolution and after. |
| 591.5 D44 | Derieux, S. A. Animal personalities. |
| 575 G57 | Goldsmith, W. M. Laws of life. |
| 509 H24 | Harris & Butt. Scientific research and human welfare. |
| 598.2 I47b | Ingersoll, Ernest. Birds in legend, fable and folk lore. |
| 523 M86 | Moulton, F. R. Introduction to astronomy. |
| 656 S64 | Smith, C. F. Book of famous ships. |
| 541 S95 | Sullivan, J. W. N. Atoms and electrons. |
| 667 T76 | Truelove, R. H. Oils, pigments, paints, etc. |

BOOKS ON FINE ARTS

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|------------|---|
| 728 B44 | Benson, A. C. ed. Everybody's book of the Queen's doll house. |
| 739 B48 | Bigelow, F. H. Historic silver of the colonies. |
| 728 B77 | Brinckloe, W. D. The small home. |
| 759.1 B84 | Bryant, L. M. American painters and their pictures. |
| 793 D33 | Dayton & Barratt. Book of entertainments and theatricals. |
| 716 E11s | Earle, A. M. Sun dials and roses of yesterday. |
| 709 F27 | *Faure, Elie. Modern art. |
| 795 F81m | Foster, R. F. Mah Jong. |
| 793 G27f | Geister, Edna. The fun book. |
| 737 J62 | Johnson, S. C. The medal collector. |
| 746 K68b | Klickmann, Flora, ed. Beautiful crochet on household linen. |
| 739 L58 | Lewer & MacIver. Bric-a-brac collector. |
| 709.47 N46 | Newmarch, Rosa. The Russian arts. |
| 745 S53 | Shaw, G. R. Knots, useful and ornamental. |
| 740 T17 | Tarbell, Harlan. How to chalk talk. |
| 749 T22 | Teall, Gardner. Pleasures of collecting. |
| 745 T84 | Turner, Herbert. Guide to school handicrafts. |
| 749 W67 | Williamson, G. C. The amateur collector. |
| 795 W89 | Work, M. C. Auction bridge of 1924. |

LITERATURE, ESSAYS AND POETRY

- 016.8 B38 Becker, M. L. Reader's guide book.
 808.5 C69 Collins, G. R. Platform speaking.
 824 C77p Coolidge, Calvin. Price of freedom.
 827 D17 Daly, T. A. Herself and the household.
 821 F92n Frost, Robert. New Hampshire, etc.
 824 G75 Grandgent, C. H. Getting a laugh, etc.
 070 H23w Harrington, H. F. Writing for print.
 824 H55 *Hillis, N. D. Great books as life teachers.
 822 H87 Hughes, Hatcher. Hell-bent for heaven.
 822 K29 Kelly, George. The show-off.
 822.08 L94 Loving, Pierre, ed. Ten minute plays.
 821 M61 Millay, E. St. V. The harp-weaver, etc.
 825 O58 O'Neill, J. M. Modern short speeches.
 851.15 P14 *Page, T. N. Dante and his influence.
 822 S53s Shaw, Bernard. Saint Joan.
 821.08 S87f Stevenson, B. E. Famous single poems.
 827 V52 *Van Loot, Cornelius. The collector's what-not.
 843 B47j *Barres, Maurice. Un jardin sur l'Oronte.
 843 B667r *Bourget, Paul, etc. Le roman des quatre.
 843 D37 *De Lacretelle, Jacques. Silbermann.
 843 E49 *Estaunié, Edouard. L'infirmé aux mains de lumière.
 843 F84v *France, Anatole. La vie en fleur.
 843 P89 *Pravéur, Jules. Le vicaire et le romancier.
 843 R81 *Roz, Firman. L'âge d'homme.
 843 T32 *Thauraud, Jérôme et Jean. La randonnée de Samba'Diouf.

DESCRIPTION AND TRAVEL

- 916.7 A31 Akeley, Carl. In brightest Africa.
 919.5 A36 Alder, W. F. Isle of vanishing men.
 915.95 A36 Alder, W. F. Men of the inner jungle.
 910.4 A58 Angel, W. H. The clipper ship "Sheila."
 914.1 B72 Bradley, A. G. Gateway of Scotland.
 910 B85 Buchan, John. The last secrets.
 914.5 B88 Bumpus, T. F. Cathedrals and churches of Rome and southern Italy.
 917.8 B95 Burt, Struthers. Diary of a dude wrangler.
 910.4 C69 Collins, Dale. Sea-tracks of the Speejacks round the world.
 915.6 E47 Ellison, Grace. Englishwoman in Angora.
 910.7 E57 Engeln & Urquhart. Story key to geographic names.
 915.2 F84 Franck, H. A. Glimpses of Japan and Formosa.
 917.295 G16 *Garcia, E. F. Book of Porto Rico.
 916.1 G19 Garstin, Crosbie. Coasts of romance.
 910.4 H54 Hildebrand, A. S. Blue water.
 916.8 H99 Hyatt, S. P. The old transport road.
 917.53 L34 Latimer, L. P. Your Washington and mine.
 917.7 L86 Longstreth, T. M. Lake Superior country.
 914.21 L96m Lucas, E. V. More wanderings in London.
 916.7 M19 Mackenzie, Jean. African clearings.
 914.95 M31 Manatt, J. I. Aegean days.
 919.6 M58 Middleton, A. S. South sea foam.

- 919.8 N69 Noice, Harold. With Stefansson in the Arctic.
 917.43 O61 Oppenheim, Bertha. Winged seeds.
 915 O84 Ossendowski, Ferdinand. Man and mystery in Asia.
 914 P31 Parker, C. S. Ports and happy places.
 919.1 P53 *Philippine Press Bureau. Beautiful Philippines.
 915.6 R19 Rawlinson, Alfred. Adventures in the near east.
 914 T18 Tatchell, Frank. The happy traveller.
 917.446 T42 Thwing, A. H. Crooked and narrow streets of Boston.
 910.4 V61 Verrill, A. H. Real story of the pirate.

BIOGRAPHY

- 92 C595 Aimery de Pierrebourg, Marguerite. Life and death of Cleopatra.
 920 B44m Benson, A. C. Memories and friends.
 92 B613 *Blathwayt, Raymond. Tapestry of life.
 928 B72b *Bradford, Gamaliel. Bare souls.
 92 C130 Calkins, E. E. Louder please!
 92 E87cy *Carey, Agnes. Empress Eugénie in exile.
 92 D772m Doyle, Sir A. C. Memories and adventures.
 92 S695 Fitzpatrick, Kathleen. Lady Henry Somerset.
 92 H141 Hall, F. H. Memories grave and gay.
 92 H1851o Hamilton, Lord Ernest. Old days and new.
 92 H241 Harris, Corra. My book and heart.
 92 J644 Johnston, Sir H. H. Story of my life.
 92 L136 Lagerlof, Selma. Marbacka.
 92 L439 Lawrence, William. Fifty years.
 92 M329 Marbury, Elisabeth. My crystal ball.
 92 S545m Maurois, André. Ariel, the life of Shelley.
 92 M692 Mitchell, E. P. Memoirs of an editor.
 92 T213 *Morgan, James. Charles H. Taylor.
 92 T257n *Nicolson, Harold. Tennyson.
 928 O96c *Overton, Grant. Cargoes for Crusoes.
 92 P229 Parkhurst, C. H. My forty years in New York.
 92 P969 Pupin, Michael. From immigrant to inventor.
 92 S537 *Shaw, William. Evolution of an Endeavorer.
 92 T668 *Tozer, Basil. Recollections of a rolling stone.
 92 S216 Wells, H. G. Story of a great schoolmaster.
 92 C777w Whiting, E. E. President Coolidge.
 92 C777wh Whiting, E. E. Calvin Coolidge. his ideals of citizenship.

HISTORY

- 387 A12 Abbott, W. J. Story of our merchant marine.
 973.78 A54 *Andrews, M. P. Women of the south in war times.
 342.73 B38 *Beck, J. M. Constitution of the United States.
 930 B65s Botsford, G. W. Source-book of ancient history.
 913.32 C24 Carter & Mace. Tomb of Tut-Ankh-Amen.
 909 E49 Elson, H. W. Modern times and the living past.
 940.9 G59 Gooch, G. P. History of modern Europe, 1878-1919.
 940.9 L77 *Lloyd George, David. Where are we going?
 940.91 M83 *Morris, I. N. From an American legation.

940.91 R91	Russell, C. E.	True adventures of the secret service.
930 S54	Shepard, A. M.	Sea power in ancient history.
966 S85	Stigand, C. H.	Land of Zinj.
940.9 S86	Stoddard, Lothrop.	Racial realities in Europe.
951 W37	Weale, Putnam.	Indiscreet chronicle from the Pacific.
932 W69	Wilson, R. F.	Living pageant of the Nile.

FICTION

Bailey, H. C.	Mr. Fortune's practice.
Bailey, Temple.	Peacock feathers.
Baldwin, Faith.	Laurel of Stonystream.
Bartlett, F. O.	Big Laurel.
Bennett, Arnold.	Elsie and the child, etc.
Bindloss, Harold.	The buccaneer farmer.
Bindloss, Harold	Green timber.
Bower, B. M.	The eagle's wing.
Brown, Bernice.	The shining road.
Buchan, John.	The three hostages.
Burt, Struthers.	Interpreter's house.
Chester, G. R.	On the lot and off.
Colver, A. R.	The dear pretender.
Conrad, Joseph	The rover.
Curran, H. H.	Van Tassel and Big Bill.
Curwood, J. O.	Gentleman of courage.
Curwood, J. O.	Nomads of the north.
Davis, Elmer.	I'll show you the town.
Day, Holman.	The loving are the daring.
Deland, Margaret.	New friends in old Chester.
Diver, Maud.	Lonely furrow.
Douglas, O. E.	Pink sugar.
Ertz, Susan.	Madame Claire.
Ertz, Susan.	Nina.
Farnol, Jeffrey.	Sir John Dering.
Ferber, Edna.	So big.
Findlater, Mary.	Beneath the visiting moon.
Fisher, D. C.	The home-maker.
Fitch, A. P.	None so blind.
Fletcher, J. S.	Mystery of Lynne Court.
Fletcher, J. S.	The safety pin.
Fletcher, J. S.	The time-worn town.
Forster, E. M.	Passage to India.
Freeman, R. A.	The blue scarab.
Galsworthy, John.	The white monkey.
Garrett, William.	Friday to Monday.
Garstin, Crosbie.	The owl's house.
Gibbs, George.	Fires of ambition.
Gibbs, Philip.	Heirs apparent.
Gilman, D. F.	Surprising Antonia.
Glasgow, Ellen.	The shadowy third.
Gordon, C. W.	Gaspards of Pine Croft.
Grimshaw, Beatrice.	Sands of Oro.

Haggard, H. R.	The ivory child.
Hannay, J. O.	Found money.
Harker, L. A.	Vagaries of Peter and Tod.
Harraden, Beatrice.	Patuffa.
Harris, Corra.	House of Helen.
Hart, W. S.	*Lighter of flames.
Hergesheimer, Joseph.	Balisand.
Hooker, F. C.	When Geronimo rode.
Hueston, Ethel.	Merry O.
Johnston, Mary.	The slave ship.
Kelland, C. B.	The steadfast heart.
Knight, Gladys.	Marriage for two.
Kyne, P. B.	Never the twain shall meet.
Lincoln, J. C.	Rugged water.
Locke, W. J.	Coming of Amos.
Luther, M. L.	The boosters.
McClure, M. B.	*High fires.
McFee, William.	Race.
Mackail, Denis.	Romance to the rescue.
Mackail, Denis.	Summertime.
Mackenzie, Compton.	The heavenly ladder.
Mackenzie, Compton.	Old men of the sea.
Mackenzie, Compton.	Parson's progress.
Marshall, Archibald.	Anthony Dare.
Marshall, Archibald.	Anthony Dare's progress.
Marshall, Archibald.	Education of Anthony Dare.
Marshall, Edison	Land of forgotten men.
Mason, A. E. W.	*House of the arrow.
Mason, A. E. W.	The winding stair.
Mason, C. A.	*The highway.
Miller, A. D.	The priceless pearl.
Miln, L. J.	In a Shantung garden.
Mitchell, R. C.	A white stone.
Niven, Frederick.	Justice of the peace.
Norris, Charles.	Bread.
Norris, Kathleen.	The beloved woman.
Norris, Kathleen.	The Callahans and the Murphys.
Norris, Kathleen.	Lucretia Lombard.
Norris, Kathleen.	Rose of the world.
Oppenheim, E. P.	Box with the broken seals.
Oppenheim, E. P.	*Michael's evil deeds.
Overton, G. M.	Mermaid.
Overton, G. M.	Thousand and first night.
Payne, E. S.	All the way by water.
Payne, E. S.	Lights along the ledges.
Phillpotts, Eden.	Black, white and brindled.
Phillpotts, Eden.	Cheat-the-boys.
Poole, Ernest.	*The avalanche.
Poole, Ernest.	Danger.
Reynolds, Mrs. Baillie.	The daughter pays.
Reynolds, Mrs. Baillie.	The lost discovery.
Richards, Mrs. L. E. H.	The squire.

Richmond, G. S.	Red of the Redfields.
Rinehart, M. R.	Temperamental people.
Sabatini, Rafael.	Banner of the bull.
Sabatini, Rafael.	Mistress Wilding.
Sabatini, Rafael.	The sea-hawk.
Sedgwick, A. D.	The little French girl.
Sachs, E. M.	Talk.
Sampson, E. S.	Comings of Cousin Ann.
Sinclair, B. W.	The inverted pyramid.
Stevenson, B. E.	The storm-center.
Suckow, Ruth.	Country people.
Swinnerton, Frank.	Young Felix.
Tarkington, Booth.	The midlander.
Thayer, Lee.	The sinister mark.
Thornton, A. G.	The astronomer at large.
Tompkins, J. W.	A line a day.
Tyson, J. A.	Barge of haunted lives.
Vachell, H. A.	Change partners.
Waldo, Harold.	Magic midland.
Waller, M. E.	Deep in the hearts of men.
Wells, Carolyn.	The affair at Flower Acres.
Weyman, S. J.	*Traveller in the fur cloak.
Whitechurch, V. L.	Bishop out of residence.
Widdemer, Margaret.	Charis sees it through.
Widdemer, Margaret.	Graven image.
Williams, F. F.	Viking's rest.
Wynne, Pamela.	Ann's an idiot.

CHILDREN'S BOOKS — NON-FICTION

915.6 A28	Ahmed Sabri Bey. When I was a boy in Turkey.
973.2 B15	Bailey, C. S. Boys and girls of colonial days.
598.2 B59bw	Blanchan, Neltje. Birds worth knowing.
580 B59	Blanchan, Neltje. Wild flowers worth knowing.
620 B64p	Bond, A. R. Pick, shovel and pluck.
970.1 B95	Burton, A. H. Story of the Indians of New England.
708 C36	Chandler, A. C. Pan the piper, etc.
634.9 C88	Crump, Irving. Boys' book of forest rangers.
398.4 D74	Douglas, Barbara, comp. Favorite French fairy tales.
170 F74	Forbush, W. B. Be square.
823 H31g	Hawthorne, Hildegard. Girls in bookland.
821.08 H99	Hyett, F. B. comp. Fifty Christmas poems for children.
901 K96	Kummer, F. A. First days of knowledge.
917.8 M42	Meeker, Ezra. Ox-team days on the Oregon trail.
915.4 M89	Mukerji, D. G. Jungle beasts and men.
582 R63t	Rogers, J. E. Trees worth knowing.
927.8 S36	Scholes, P. A. Complete book of the great musicians.
590 S49b	Seton, E. T. Bannertail.
973 T16l	Tappan, E. M. ed. Letters from colonial children.
656 T16	Tappan, E. M. Travelers and traveling.
810.9 T18	Tassin & Maurice. Child's story of American literature.
595 W41	Weed, C. M. Butterflies worth knowing.

- | | |
|------------|--|
| 901 W46 | Wells, M. E. How the present came from the past. 2v. |
| 973.1 W56i | *Wheeler, F. R. In the days before Columbus. |
| 973.1 W56q | *Wheeler, F. R. Quest of the western world. |
| 970.1 W691 | Wilson, G. L. Myths of the red children. |

STORIES FOR CHILDREN

- | | |
|-------------------|-----------------------------|
| Abbott, Jane. | Laughing last. |
| Adams, Katherine. | The silver tarn. |
| Baker, Olaf. | Thunder boy. |
| Banks, H. W. | House of the lions. |
| Brown, E. A. | Robin Hollow. |
| Charskaya, L. A. | Little princess Nina. |
| Greene, A. B. | Greylight. |
| Hooker, F. C. | Little house on the desert. |
| Hunt, C. W. | Peggy's playhouses. |
| Lofting, Hugh | Doctor Dolittle's circus. |
| Meigs, Cornelia. | The new moon. |
| Miller, L. E. | Adrift on the Amazon. |
| Perkins, L. F. | Colonial twins of Virginia. |
| Phillips, E. C. | Humpty Dumpty house. |
| Smith, N. A. | Children of the lighthouse. |
| White, E. O. | Tony. |

REPORT OF CUSTODIAN JOHN CORNELL ART GALLERY

To the Trustees of the Memorial Hall Library.

GENTLEMEN: I herewith submit the report of the gallery for the twelve months ending December 31, 1924.

The most marked event of the year has been the increased attendance of the children, which has been cheering.

The attendance for 1923 was 300, of which 130 were adults and 170 children. For 1924 there is a total of 427: adults 120, children 307. These figures show a gradual increase towards the attendance of 1917, which was 610.

One reason for the rise is due to the fact that some children under fourteen have come to the gallery earnestly asking permission to remain. As no adults could accompany them, your custodian has taken them in charge. Their appreciation has been shown in various ways.

A deeply interested caller to the gallery was a representative of *The Lawrence Sun*. One result of his call was an enthusiastic article in the next issue of *The Sun*. Another was the visit the next week of several Lawrence residents, who announced at once that they had read the article and were moved to see for themselves. They remained some time, evidently reluctant to leave such an attractive place. On their departure they expressed the intention of returning with some of their friends.

The gallery is entering on its twenty-fifth year of service. It is earnestly hoped that when the next report comes in it will show that the year has been unusually productive.

Respectfully submitted,

ABBIE S. DAVIS

Custodian

TOWN OF ANDOVER

TWENTY-FOURTH ANNUAL
REPORT

OF THE

BOARD OF PUBLIC WORKS

EMBRACING THE THIRTY-SIXTH ANNUAL REPORT OF
WATER COMMISSIONERS AND TWENTY-
EIGHTH ANNUAL REPORT OF
SEWER COMMISSIONERS

FOR THE YEAR ENDING

DECEMBER 31, 1924

ANDOVER, MASS.
THE ANDOVER PRESS
1925

WATER COMMISSIONERS

1889—1899

*JOHN H. FLINT

*JAMES P. BUTTERFIELD

*FELIX G. HAYNES

SEWER COMMISSIONERS

1893—1894

*WM. S. JENKINS

*JOHN L. SMITH

CHARLES E. ABBOTT

1894—1899

*WM. S. JENKINS

*JOHN L. SMITH

*JOHN E. SMITH

BOARD OF PUBLIC WORKS

1899—1902

*JOHN H. FLINT

*WM. S. JENKINS

*JOHN L. SMITH

*JAMES P. BUTTERFIELD

*FELIX G. HAYNES

1903—1906

*JOHN L. SMITH

*FELIX G. HAYNES

*JOHN W. BELL

*LEWIS T. HARDY

JAMES C. SAWYER

1906—1907

*FELIX G. HAYNES

*JOHN W. BELL, Treas.

JAMES C. SAWYER, Sec'y

*LEWIS T. HARDY

*HARRY M. EAMES

1907—1908

*FELIX G. HAYNES

*JOHN W. BELL, Treas.

JAMES C. SAWYER, Sec'y

*LEWIS T. HARDY

ANDREW McTERNEN

1908—1912

*LEWIS T. HARDY

*JOHN W. BELL, Treas.

JAMES C. SAWYER, Sec'y

ANDREW McTERNEN

WILLIS B. HODGKINS

1913—1914

*LEWIS T. HARDY ('16)

BARNETT ROGERS ('16)

ANDREW McTERNEN ('15)

THOS. E. RHODES, Sec'y ('14)

WILLIS B. HODGKINS, Treas. ('15)

1914—1916

THOS. E. RHODES ('19)

BARNETT ROGERS ('16)

*LEWIS T. HARDY ('16)

ANDREW McTERNEN, Sec'y ('18)

WILLIS B. HODGKINS, Treas. ('18)

1916—1917

BARNETT ROGERS ('19)

THOS. E. RHODES ('17)

ANDREW McTERNEN ('18)

CHAS. B. BALDWIN, Sec'y ('19)

WILLIS B. HODGKINS, Treas. ('18)

1917—1918

BARNETT ROGERS ('19)

THOS. E. RHODES ('20)

ANDREW McTERNEN ('18)

CHAS. B. BALDWIN, Sec'y ('19)

WILLIS B. HODGKINS, Treas. ('18)

1918—1919

BARNETT ROGERS ('22)

ANDREW McTERNEN ('21)

PHILIP L. HARDY ('21)

CHAS. B. BALDWIN, Sec'y ('22)

THOS. E. RHODES, Treas. ('20)

1919-1920-1921

BARNETT ROGERS ('22)

WILLIAM D. McINTYRE ('21)

ARTHUR T. BOUTWELL ('22)

PHILIP L. HARDY Sec'y ('21)

THOS. E. RHODES, Treas. ('23)

1922

THOMAS E. RHODES ('23)

PHILIP L. HARDY ('24)

WM. D. McINTYRE, Treas. ('24)

ARTHUR T. BOUTWELL ('25)

EDWARD SHATTUCK ('25)

1923-1924

PHILIP L. HARDY ('27)

WM. D. McINTYRE, Sec. ('27)

ARTHUR T. BOUTWELL, Treas. ('25)

EDWARD SHATTUCK ('25)

WALTER I. MORSE ('26)

SUPERINTENDENT

FRANK L. COLE

* Deceased

REPORT OF BOARD OF PUBLIC WORKS

To the Citizens of the Town of Andover, Mass.:

Your Board of Public Works herewith submits its annual report for the year ending December 31, 1924.

This is the twelfth annual report of the Board under its re-organization, and includes the twenty-eighth annual report of the Sewer System, the thirty-sixth of the Water System, and the twelfth of the Highway and Park Departments, since they have been under the jurisdiction of the Board of Public Works.

ORGANIZATION

Philip L. Hardy and William D. McIntyre were elected to the Board for the term of three years. The Board met on March 10, 1924, and organized as follows: Chairman, Philip L. Hardy; Secretary, William D. McIntyre; Treasurer, Arthur T. Boutwell. Mr. Frank L. Cole was appointed superintendent for one year.

WATER DEPARTMENT

During the year 1924 there has been added to the Water System eight thousand two hundred ninety-one feet (8,291) of 6-inch cast iron pipe in the West district, with hydrants, three hundred forty feet (340) of 6-inch pipe on Carmel street with a hydrant, making fifty-nine and forty-seven hundredths miles (59.47) of water mains, four hundred thirty-three (433) hydrants owned by the Town, and forty-five (45) hydrants on private property. A more complete analysis of this work with regard to detail and cost, will be found in the Superintendent's report.

All hydrants have been inspected and found with a few exceptions to be in perfect working order. However, where faulty operation was discovered it was in no sense due to the lack of

proper attention by this department, but rather to the improper closing by some person not wholly familiar with its operation. In the future, with the exception of firemen and employees of the Board of Public Works, no one will be allowed to operate hydrants in Town. This action has the approval of the Fire Underwriters.

This year the water consumption together with receipts, has been the largest in the history of the system, the total gallons pumped being three hundred thirty-seven million, seven hundred seventeen thousand, two hundred forty-seven (337,717,247) gallons, about five million (5,000,000) gallons greater than was pumped last year.

At our last annual Town meeting this Board was instructed to make a general survey of the Water System with recommendations. This investigation has been made through the firm of Weston & Sampson, Engineers, and from which we have discovered many changes that must be made in the very near future. Among which we think the most essential to be cared for this year are:

Connect dead end on Pine street with Elm street line three hundred eighty-five feet (385) of 6-inch pipe.

Connect dead end on Abbot street with Phillips street seven hundred eighty-six feet (786) of 6-inch pipe.

Connect dead end on Highland road with line at the corner of Chestnut street, eight hundred thirty feet (830) of 6-inch pipe.

Connect dead end on Morton street to line on Chestnut street, one thousand six feet (1006) of 6-inch pipe.

An extension on Pasho street, 772 feet of 6-inch pipe.

This will involve an expenditure of approximately twelve thousand dollars (\$12,000.00). These changes we consider absolutely necessary, as they will bring some of this area into our high service system. Dead ends cause the Town big expense each year because of the necessity to drain them off during the summer months. These new proposed connections will eliminate the necessity of the so-called blowing off of the system at these points, thereby giving better circulation to the system, and increasing its efficiency both as a drinking water system and a fire protection.

We present you below a summarized report of the Water System together with the Pumping Plant as presented to us by the firm of Weston & Sampson, Engineers:

December 2, 1924

Subject — Water Supply Distribution System

Board of Public Works,
Andover, Mass.

Gentlemen:

In accordance with your request we have made a study of your water supply distribution system and present the following report.

IN GENERAL

The source of water supply is Haggett's Pond at the south end of which is the pumping station equipped with a new 2 M. G. electric motor-driven centrifugal pump and a 1.5 M. G. steam pumping engine installed in 1894. The pumps discharge into a 12-inch main on Lowell Street, supplying West Andover, Shawsheen Village and Andover proper, and a 10-inch main via Osgood Street, supplying Ballardvale. The excess pumpage is stored in a low service reservoir of 1,500,000 gallons capacity, situated about $1\frac{1}{2}$ miles southeast of the Town Hall. A certain section of Andover lying, for the most part, east of Main Street and south of Highland Road is at too high an elevation to be supplied from the low service reservoir so that two 0.5 M. G. booster pumps have been installed just south of Bancroft Road, taking the low pressure water and discharging it into an 8-inch high pressure main leading to a high service reservoir of 620,000 gallons capacity, situated on Prospect Hill, the highest point in Essex County. The elevation of Haggett's Pond at normal stage is 105, of the lower floor of the pumping station 117, of the low service reservoir flow line 309 and of the high service reservoir flow line 406. The friction head at Haggett's Pond pumping station with the electric pump in operation is 90 feet and with the steam pump 53 feet.

The average daily consumption of water in 1921 and for several years previous was about 600,000 gallons. For 1922, due largely to the development of Shawsheen Village by the American

Woolen Company, the consumption was 718,000 gallons per day and in 1923 had increased to 911,000 gallons.

WATER SUPPLY TO WEST DISTRICT

A part of Andover in the westerly corner, the so-called "West District," is at too high an elevation to be supplied with water from the present low service system and is too distant to be supplied from the present high service system. The only feasible method of supply is to establish a high service system for this district similar to that now in use for the easterly part of Andover.

The accompanying plan shows such a system and consists of:

A low pressure supply main, connecting with the present 10-inch low pressure main on Lowell Street and extending up Haggett's Pond Road to a booster pumping station opposite Wood Hill.

A booster pumping station taking water from the low pressure main and discharging into a 10-inch high pressure main leading to a standpipe on Wood Hill. The pumping station would contain an electric motor driven centrifugal pump with a capacity of 150 g. p. m. against a total pumping head of about 100 feet requiring a 10 H. P. motor. It would be practicable to arrange for automatic operation of the pump by means of a compensator and pressure governor so that the pump would stop when the standpipe was full and start when the water had been drawn down about 10 feet.

A standpipe on the summit of Wood Hill with its flow line at elevation 390 and having a capacity of 150,000 gallons. The standpipe could be of steel or concrete with an inside diameter of 25 feet and a height of 40 feet. Assuming a fire to occur with 30 feet of water in the standpipe two fire streams could be supplied in addition to the ordinary domestic consumption for a period of three hours.

The distribution system is designed to furnish 500 g. p. m. at any hydrant under a pressure of about 40 lbs. with two fire streams in operation. The highest point in the distribution system is on High Plain Road between Haggett's Pond Road and Cross Road, where the elevation is about 270, giving a static pressure of 52 lbs. with a full standpipe. The static pressure on River Road near the Tewksbury line would be 63 lbs. and at the high point on Haggett's Pond Road, 69 lbs.

We estimate the cost of the West District high service system as follows:

LOW PRESSURE SUPPLY MAIN

Lowell Street, End of present 10" to Haggett's Pond Road, 1100' of 10"	\$4,000
Haggett's Pond Road—Lowell St., to Booster Pumping Station, 5300' of 8"	14,000
	<hr/> \$18,000

BOOSTER PUMPING STATION

Pump and motor, brick building, piping connections, electric wiring, heating, automatic regulation, etc., complete	3,500
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FORCE MAIN

Booster Pumping Station to Standpipe, 1300' of 10"	4,500
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STANDPIPE

150,000 gallon reinforced concrete covered standpipe on Wood Hill including land and right of way	11,500
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DISTRIBUTION SYSTEM

Haggett's Pond Road—Force Main to Bailey Road, 2250' of 10"	\$8,100
Haggett's Pond Road—Bailey Road to High Plain Road, 3850' of 10"	13,500
Bailey Road—Haggett's Pond Road to Pleasant Street, 3000' of 8"	8,200
Bailey Road—Pleasant Street to Tewksbury Line, 3900' of 8"	10,400
Connection—Bailey Road to River Road, 525' of 8"	1,400
River Road—Tewksbury Line to Boutwell Road, 6300' of 6"	13,000
River Road—Boutwell Road to Cross Road, 3950' of 8"	10,800
Cross Road—River Road to High Plain Road, 5600' of 6"	11,400
Boutwell Road—River Road to Pleasant Street, 1900' of 8"	5,100
Pleasant Street—Bailey Road to Boutwell Avenue, 3200' of 6"	8,600
High Plain Road—Boutwell Road to Haggett's Pond Road, 1025' of 8"	2,900
High Plain Road—Haggett's Pond Road to Cross Road, 3400' of 8"	9,100
High Plain Road—Cross Road to Woodhill Road, 1375' of 8"	3,700
High Plain Road—Woodhill Road to Top of Hill, 1550' of 8"	4,000
High Plain Road—Top of Hill to B. & M. R. R., 2175' of 6"	4,600
Woodhill Road—High Plain Road to Low Pressure Main, 800' of 6"	1,700
	<hr/> 114,500

Total

\$152,000

There are now 45 houses within the area that would be supplied with water by the above system and assuming that all would apply for water the yearly income to the Town of Andover under the present water rates would be about \$600 or less than one-half of one percent on the cost of construction.

The yearly cost of supplying water would be as follows:

Fixed Charges, 4% of \$152,000	\$6,080
Maintenance and Depreciation, 2% of \$152,000	3,040
Electric Power, 9000 K. W. Hrs. at .04	360
Attendance, Repairs, etc.	500
	<hr/>
Total Yearly Cost	\$9,980

Unfortunately the same disparity between income and cost applies to any section of the district that might be supplied with water.

In view of the above facts it is evident that to furnish water to the West District under the present sparsely settled condition would burden the water department with an expense that could only be fairly met by a general increase of the water rates in Andover of approximately 25% or by a guaranteed income to the water department by those supplied of about 6½% of the construction cost.

EXTENSION OF LOW PRESSURE SYSTEM IN WEST DISTRICT

The remainder of the West District of Andover could be supplied with water by extending the present low pressure system.

The following tabulation gives the streets that could be included in the present low pressure system, together with the proper size, length and estimated cost of the mains.

Lowell Street—End of Present 10" Main to Haggett's Pond Road (provide for "West District" High Service System) 1100' of 10"	\$4,000
Lowell Street—Haggett's Pond Road to Brown Street, 4200' of 8"	11,400
Lowell Street—Brown Street to Tewksbury Line, 2400' of 6"	5,100
Brown Street—Lowell Street to Bellevue Road, 3450' of 6"	7,350
Bellevue Road—End of Present 6" Main to Tewksbury Line, 2000' of 6"	4,000

Greenwood Road—Lowell Street to High Plain Road, 4250' of 8"	11,100
Greenwood Road—High Plain Road to Gleason Street, 1750' of 8"	4,700
Greenwood Road—Gleason Street to B. & M. R. R., 2025' of 8"	5,550
Greenwood Road—B. & M. R. R. to Chandler Road, 1550' of 8"	4,200
Chandler Road—End of Present 6" Main to Greenwood Road, 1300" of 6"	2,650
Chandler Road—Greenwood Road to "Cross Street", 5800' of 8"	15,400
Chandler Road—Cross Street to River Road, 2500' of 6"	5,200
"Cross Street"—Chandler Road to River Road, 2700' of 6"	5,450
River Road—Cross Road to Chandler Road, 2300' of 6"	4,850
River Road—Chandler Road to "Cross Street", 2150' of 6"	4,400
River Road—"Cross Street" to Laurel Lane, 2150' of 6"	4,500
River Road—Laurel Lane to Brundett Avenue, 2150' of 6"	4,450
River Road—Brundett Avenue to North Street, 2750' of 6"	5,900
River Road—North Street to Lawrence Line, 3050' of 6"	6,350
Webster Street—End of Present 6" Main to Lawrence Line, 1150' of 6"	2,300
Beacon Street—High Plain Road to Chandler Road, 2925' of 8"	5,900
Beacon Street—Chandler Road to Lawrence Line, 3800' of 6"	7,850
High Plain Road—End of Present 6" Main to Gleason Street, 4000' of 6"	8,000
High Plain Road—Gleason Street to Greenwood Road, 1300' of 6"	2,600
High Plain Road—Greenwood Road to B. & M. R. R., 4000' of 6"	8,250
Haggett's Pond Road—Lowell Street to Booster Pumping Station (provide for West District High service system) 5300' of 8"	14,000
Woodhill Road—Haggett's Pond Road to End of Low Pressure System, 4500' of 6"	9,100

None of the above streets are, as yet, sufficiently populated to warrant the extension of the present low pressure system.

CONCLUSIONS ON WEST DISTRICT

From the above considerations we believe that the time has not yet arrived for the Town of Andover to further extend its water supply system to provide for any part of the West District.

PRESENT LOW SERVICE DISTRIBUTION SYSTEM

An incomplete study of the present low service distribution system suggests the following:

Main Street—Essex Street to Stevens Street. Install additional 10" main or replace present 8" with 12" before Main Street is improved.

Central Street—Main Street to School Street. Replace present 6" with 10".

Pine Street—Connect present 6" dead end with Elm Street.

Walnut Avenue—Connect present 6" dead end at Carmel Street with Elm Street.

School Street—Central Street to Main Street. Replace present 6" with 10".

Abbot Street. Connect present 6" dead end with Phillips Street.

Change from low service to high service system on the following streets:

Morton Street. From Bartlet Street to Chestnut Street, connecting with the present 6" high service dead end on Bartlet Street and extending the present 6" dead end on Morton Street to Chestnut Street.

Chestnut Street from Morton Street to Highland Road.

Highland Road from Chestnut Street to Summer Street.

Summer Street from Highland Road to Pine Street.

PRESENT HIGH SERVICE DISTRIBUTION SYSTEM

The high service distribution system extends over a considerable area and protects many valuable buildings especially on land of the academy. Low service water is also available for some of the academy buildings, to the extent of from 3 to 4 fire streams with the aid of pumping engines. Better high service fire protection is needed and could be furnished by an additional 10" main from the high service reservoir along Prospect Hill Road and Salem Street. It is probable that another high service reservoir will be required at some future time to provide additional storage as the present reservoir will provide 10 fire streams for only four hours.

Other improvements are as follows:

Highland Road. Connect present 6" dead end with proposed high service on Chestnut Street.

Woodland Road. Connect present 6" dead end with Highland Road by an 8" main.

Connect Salem Street and Main Street via Vine Street, Holt Street, and Wildwood Road by an 8" main.

Install an 8" main from the reservoir to the intersection of Salem and Vine Streets.

Main Street. Ballardvale Road to Rattlesnake Hill Road. Increase 6" to 8" or lay a 6" main on Woods Road from Ballardvale Road to Rattlesnake Hill Road and on Rattlesnake Hill Road from Woods Road to Main Street.

Sunset Rock Road. Connect present 6" dead end with 6" dead end on Hidden Road at Porter Road.

Stinson Road. Connect present 6" dead end with Salem Street.

We advise the following order of construction for improving the low service and high service distribution systems. It is recognized, however, that the program suggested may be influenced by local considerations and future building developments.

Change the following streets from the low service to the high service system.

1. Chestnut Street from Highland Road to Morton Street, connecting with the present 6" high service dead end on Highland Road.

2. Highland Road from Chestnut Street to Summer Street.

3. Summer Street from Highland Road to Pine Street.

4. Morton Street from Bartlet Street to Chestnut Street, connecting with the present 6" high service dead end on Bartlet Street and extending the present 6" dead end on Morton Street to Chestnut Street.

Other improvements:

5. Abbot Street. Connect 6" dead end with Phillips Street.

6. Pine Street, Connect 6" dead end with Elm Street.

7. Walnut Avenue. Connect 6" dead end at Carmel Street with Elm Street.

8. School Street—Main Street to Abbot Street. Replace 6" with 10".

9. Stinson Road. Connect 6" dead end with Salem Street.

10. Sunset Rock Road. Connect 6" dead end with 6" dead end on Hidden Road at Porter Road.

11. Central Street—Main Street to School Street. Replace 6" with 10".

12. School Street—Central Street to Abbot Street. Replace 6" with 10".

13. Main Street—Essex Street to Lewis Street. Replace 8" with 12".

14. Main Street—Lewis Street to Stevens Street. Replace 8" with 12" before Main Street is improved.

15. Woodland Road. Connect present 6" dead end with Highland Road by an 8" main.

16. Vine Street. Holt Street and Wildwood Road. Connect Salem Street and Main Street with an 8" main.

17. High service reservoir to Salem Street at Vine Street. Install an 8" main.

18. Main Street—Ballardvale Road to Rattlesnake Hill Road. Replace 6" with 8" or install an additional 6" main on Woods Road and Rattlesnake Hill Road, or by some other route to connect the two points.

19. High service reservoir to Main Street via Prospect Hill Road and Salem Street. Install an additional 10" main.

20. Construct additional high service reservoir of about 750,000 gallons capacity.

HAGGETT'S POND PUMPING STATION

The present pumping plant at Haggett's Pond consists of, —

(1). A Deane cross-compound, high duty, steam pumping engine having a rate capacity of 1,500,000 gallons per 24 hours. This pump was erected in 1894, and although in nearly constant service for thirty years, it is still in reasonably good condition and with the continued careful attention that has been given it in the past should be capable of economically supplying the town with water for several years. The pumping station records show that the duty of the Deane pump is about 75,000,000 ft. lbs. per 1000 lbs. of steam which cannot be equalled in operating cost except by a cross-compound crank and flywheel steam pumping engine or an oil engine driven pumping machine. In either case, the cost of installation, without any addition to the pumping station building which would probably be necessary for the steam pump or the erection of two new boilers designed for 150 lbs steam pressure, would amount to at least \$25,000.

(2). A Lawrence Pump and Machine Company electric motor driven centrifugal pump having a capacity of about 2,000,000 gallons per 24 hours. This pump was erected in 1924 and is a

valuable asset to the pumping station as it provides an independent source of delivering water to the Town in case of accident to the steam pump which considering its long service is liable to occur and cannot be entirely foreseen.

(3). A Rumsey Pump, operated by an oil engine, with a capacity of slightly over 1,000,000 gallons per 24 hours. This pump was installed in 1910 and owing to the greatly increased consumption of water in recent years is hardly capable of supplying the maximum demands for water.

(4). Two 100 H. P., horizontal, tubular boilers, 66"x16'-0", built for 125 lbs. steam pressure. The north boiler was installed eighteen years ago and the south boiler fifteen years. These boilers would not be suited to a new steam pumping engine but may be serviceable during the useful life of the present Deane pump.

Although it will be necessary to install a new high duty pumping engine within a few years, we believe that the Deane steam pump should be operated for the present with the electric pump held in reserve but used each month to the extent of the standby charge for electricity.

Respectfully submitted,

WESTON & SAMPSON

We believe this report shows intelligent study of the entire water system, and that all extensions that are made in the future should be in accordance with this plan.

The Board would recommend the sum of thirty-one thousand dollars (\$31,000.00) for maintenance of the water department for the ensuing year, also the sum of twelve thousand dollars (\$12,000.00) to be used for construction and service pipe. These recommendations are twenty-five hundred dollars (\$2500.00) lower than last year for the maintenance of the water department, and three thousand dollars (\$3,000.00) less for construction and service pipe. A detailed account of the estimated expenditures of the maintenance of the water department will be found in the Superintendent's report.

WATER BONDED DEBT

The Bonded Debt of the water system January 1, 1924, was one hundred eleven thousand dollars (\$111,000.00). During the

year 1924 there was paid ten thousand dollars (\$10,000.00), leaving on the Bonded Debt system a balance of one hundred one thousand dollars (\$101,000.00). Of this indebtedness twenty thousand dollars (\$20,000.00) is redeemable by the Sinking Fund which on January 1, 1925, amounted to nineteen thousand nine hundred seventy-one dollars and seven cents (\$19,971.07). It is no longer necessary to ask for appropriations for the sinking fund since the interest on the amount on deposit will meet the sum required when due.

SEWER DEPARTMENT

With the outfall sewer in operation, we believe Andover's sewerage disposal is taken care of for many years to come.

We hand you herewith a supplementary report of our engineers, Weston & Sampson, giving a general outline of the sewer system to date, as follows:

January 26, 1925

Board of Public Works,

Andover, Mass.

Gentlemen:

The contract entered into with Cenedella & Co., of Milford, Mass., for the construction of the outfall sewer was completed on Dec. 15, 1923. The connection near the old settling basin to divert the flow of the high level sewer into the former 12" cast iron main leading from the sewage pumping station was made on December 22. The connections of this 12" high level sewer and the 12" pump discharge with the 18" outfall sewer force main were furnished on January 11th, and on that day the high level sewer was first turned into the outfall sewer to the Merrimack River. The sewage pumps, which pump the low level sewage into the outfall sewer, were also started on January 11th but, as anticipated, so much trouble was experienced with the pumps becoming clogged on account of the method of screening the sewage as originally constructed, that it was found necessary to install a new screen chamber and to make other changes which delayed the time of starting the sewage pumping station. On June 27th, the alterations were completed and a few days later, after final adjustments of the automatic float switches, the sewage pumping plant was put into operation.

Leaks were discovered in the sewer line which were caused by faulty connections in some cases, and in joints not properly pored in others. In any cast iron force main, a certain number of leaks are naturally expected, and perhaps a good average has been prevalent in this instance.

We do not believe that any considerable number of joints are defective or that further trouble will occur to any extent. The force main has been in complete operation for a few months only, and we anticipate that when the spring rains have removed the frost from the ground and again settled the trench, and the line has been in operation for this additional period, the last of the leaks, if any, will have developed.

The contractor has, up to the present, repaired all leaks at his own expense although his contract expired about six months ago.

Yours truly,

(Signed) WESTON & SAMPSON

Would say further in connection with the construction of the outfall sewer, that this work was completed exclusive of land damage with a balance of twelve thousand seven hundred thirty-two dollars and fourteen cents (\$12,732.14) in cash, together with stock and material to the amount of two thousand dollars (\$2,000.00), which we think is a very satisfactory showing for such a large piece of construction.

There has also been laid a three hundred foot (300) sewer main on Poor street this year, which consists of the only new work in this department.

We would recommend for the maintenance of sewer, five thousand dollars (\$5,000.00). This you will note is one thousand dollars (\$1,000.00) less than was asked for last year.

SEWER BONDED DEBT

The Bonded Debt of the sewer system, January 1, 1924, was two hundred forty-nine thousand dollars (\$249,000.00). During the year twelve thousand dollars (\$12,000.00) was paid from the Town Treasury on this indebtedness. Of this amount thirty thousand dollars (\$30,000.00) is redeemable by the sinking fund, which on January 1, 1925, amounted to twenty-six thousand nine hundred twelve dollars and ninety-eight cents (\$26,912.98).

It will be no longer necessary to ask for appropriations for the sinking fund since the interest on the amount on deposit will meet the sum required when due.

HIGHWAY DEPARTMENT

Snow removal has gotten to be a very important branch of this department's work, because of the change from the horse-drawn to the motor vehicles. It is important that all roads in town be kept open, and it has been our intention as far as was possible to work to this end. The truck plow, we think has gained favor over the horse-drawn sled for breaking out roads, and feel that the investment made for plows has been a good one. However, it must be borne in mind that the State truck loaned us by the State Highway Division must be used for the plowing of the state road exclusively until it is open for travel, then it may be diverted to town streets for clearing.

The maintenance work this year was in many ways the same as usual, consisting of the cleaning of gutters and catchbasins, roads patched and repaired where necessary, and tarvia roads blanketed where needed. We consider it to the Town's interest to properly maintain roads, that is to say, where roads show surface wear it is economy to give them a coating of preservative. We have also made a special effort to care for small holes that have come to our attention, and have gone so far as to ask all people who have known of such a condition to notify this Board that we may more efficiently care for these places.

The gravel roads were scraped and shaped; this we believe greatly assists the life of them, as this treatment offers a better opportunity for drainage. In the outlying districts there have been many roads rebuilt with cinders, they being almost impassable during certain seasons of the year due to poor drainage. We think in these particular places cinders offer a better solution for this condition than gravel. Many more gravel roads were oiled this year than in previous years. We think this is good practice, as much as it offers a binder to the road in the dry season.

Under new construction Stevens Street was rebuilt from Shawsheen Road to the river bridge with curbing, a distance of

three thousand five hundred ninety-two (3,592) square yards. This street was in an almost impassable condition; also considering the new building along this thoroughfare by the M. T. Stevens Company together with their generous offer covering 75% of the cost of the curbing set on one side of the street, we thought it a favorable time for its construction. Lowell Street was also rebuilt from Poor street to Canterbury street. Through the generous co-operation of the American Woolen Co. the curbing was paid for on this thoroughfare in front of all property owned by this company, which extended the entire length of one side, and the greater part of the other—there were four thousand nine hundred seventy and seventy-four hundredths (4970.74) square yards rebuilt, and was of Warrenite construction. This road was also in very poor condition. There was also rebuilt a short strip on Central Street from Lupine Road to the river bridge, the north end of Wolcott Avenue, and Abbot Street. Each one of these jobs were conditions that could no longer be tolerated. Many sidewalks were rebuilt, and we hope we can build many more this year. A general inspection was made of all bridges in town, from which we found many needed repairs. We hope to be able to care for this work this year. We would recommend for maintenance the sum of \$45,000.00, and for construction \$20,000.00.

PARK DEPARTMENT

A very extensive survey has been made of the entire park system which will be submitted to the Town when in proper shape.

Bleachers were built on the playstead according to a vote of the Town at our last Town meeting, and add greatly to the comfort of those attending the various games.

Some grading has been done on the playstead this year, but we feel the most serious to be contended with in future development, will be the drainage of this particular plot. We would accordingly recommend five thousand dollars (\$5,000.00) for this purpose.

We would recommend for the maintenance of the park department for the ensuing year eighteen hundred dollars (\$1800.00),

three hundred dollars (\$300.00) more than last year, the reason being because of the necessity of moving the bleachers at the completion of the baseball season to a different location on the field for the football season.

We would also ask for the unexpended balance from the erection of the bleachers of four hundred fifty-three dollars and four cents (\$453.04).

PHILIP L. HARDY
EDWARD SHATTUCK
ARTHUR T. BOUTWELL
WALTER I. MORSE
WILLIAM D. McINTYRE

REDEMPTION OF BONDS

WATER SINKING FUNDS

CR.

Balance Jan. 1, 1924	\$19126.69
Interest on deposits	844.38

Balance Jan. 1, 1925	\$19971.07
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DR.

Andover National Bank, Book No. 3	\$7751.35
Andover Savings Bank	12219.72

	\$19971.07
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To redeem Sewer Bonds, due 1928

CR.

Balance Jan. 1, 1924	\$25057.76
Appropriation March, 1924	1000.00
Interest on deposit	855.22

Balance Jan. 1, 1925	\$26912.98
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DR.

Andover National Bank, Book No. 2	\$26912.98
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SUPERINTENDENT'S REPORT

To the Board of Public Works:

GENTLEMEN:

I herewith submit the thirty-sixth annual report of the Water Department, the twenty-eighth of the Sewer Department, and the twelfth of the Highway and Park Departments, together with a brief summary of the work performed in each department for the year ending December 31, 1924.

WATER DEPARTMENT

During the year 1924 there have been added to our main pipe lines in the West District, 8291 feet of 6-inch C. I. pipe. This pipe has been laid on the following streets: 7150 feet on North Street; 232 feet at the right of the North School going towards River Road; 585 feet on Chandler Road and 324 feet on Webster Street. Fifteen hydrants were installed on these lines. This work was done under Article No. 6, \$20,000 appropriation, and there remains a balance of \$580.72, making the job cost about \$2.34 per foot. The 6-inch main on Carmel Street was extended 340 feet at a cost of \$764.12. or about \$2.25 per foot. One hydrant was installed on this line. The total length of the water mains in town is now 59.47 miles. There are 433 hydrants belonging to the town and 45 on private property. The private hydrants are under the care of the owners.

An examination of the hydrants made during November and December showed that a few of the hydrants were filled with water and some were leaking through the waste due to improper closing. I would ask that nobody except firemen and employees of the Board of Public Works be allowed to open and close fire hydrants, because when this is done it invariably causes trouble. This is also a request of the fire underwriters.

We are now working on a set of plans showing the location of every gate and hydrant in town. The gates on the water mains are usually tied-in to houses, posts, hydrants, etc. Changes in construction and relocating of posts are continually being made and this set of plans will be used on the job in keeping the locations of the gates up to date, which is absolutely essential. This set of plans can also be used in the examination of gates, which according to the fire underwriters must be done every so often.

A centrifugal pump, electrically driven, has been installed at the Haggett's Pond pumping station. This installation was made by the Lawrence Machine Company with the exception of the piping, which was done by the Town. We have pumped at Haggett's Pond 337,717,247 gallons, about five million more than in 1923. This is the largest amount pumped in a single year. The pumps were run every day; the steam plant being used 3545 hours and 35 minutes and the electric plant 1102 hours and 25 minutes, on an average of 12 hours and 44 minutes per day. The greatest amount pumped during one day was on July 9th, the amount being 1,620,000 gallons. The water receipts for the year were \$42,284.32, or \$4500.00 more than in 1923. The pump at the small station on Bancroft Road is giving excellent results and is used about 35 hours per week.

The engineer's house at the pond has been wired for electricity and minor repairs have been made. The grounds near the pond, from the engineer's house to the railroad track, on Haggett's Pond Road, have been fenced in. The brush and dead wood have been removed from the corner of Lowell Street and Haggett's Pond Road to the railroad track where it crosses Haggett's Pond Road. This year we hope to complete this work from the corner to the engine house. A portion of the swampy land near the engine house has been filled in and covered with loam. This spring the remaining part of this land will be filled in, covered with loam and grassed over.

I would recommend for maintenance for 1925, \$31,000.00 (\$2500.00 less than 1924) to be divided as follows:

Salaries and labor	\$15000.00
300 tons of coal	2500.00
Engine and cylinder oil	500.00
Power, No. 1 station	4000.00

Power, No. 2 station	\$1500.00
Keeping horses and cars	1000.00
Steam plant	1000.00
Tools	200.00
Grounds	1500.00
Survey	600.00
Fence	700.00
Miscellaneous	1500.00
5 Hydrants	1000.00

Total	\$31000.00
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SERVICE PIPE

The number of applications in 1924 was 109, making a total of 2173.

In use January 1, 1924, 1950; put in up to January 1, 1925, 94; 2044 in use January 1, 1925.

Meters in use January 1, 1924, 1856; meters set during 1924, 73; 1929 in use January 1, 1925.

I would recommend for Service Pipe for the year 1925, the sum of \$12,000.00, to be divided as follows:

Labor and salaries	\$6000.00
Service pipe, brass goods	1500.00
75 meters	1000.00
Pipe sizes $\frac{3}{4}$ ", 1", $1\frac{1}{4}$ ", and 2"	3000.00
Miscellaneous	500.00

Total	\$12000.00
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This is \$3000.00 less than 1924.

RECEIPTS

Service pipe and meters	\$7069.78
Water receipts	42284.32

\$49354.10

Paid to Town Treasurer

Water receipt	\$42284.32
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Pipe account	7069.78
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\$49354.10	\$49354.10
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I should like to recommend work for which the fire underwriters have already asked and also which the engineers, who surveyed our water system recommended. A few of these changes should be made each year and I ask for an appropriation to take care of the following this year:

Connect dead end on Pine Street with Elm Street line, 385 ft. of 6" pipe including ledge work, etc.	\$1800.00
Connect dead end on Abbot Street with Phillips Street line, 786 ft. 6" pipe	1500.00
Connect dead end on Highland Road with line at the corner of Chestnut Street, 830 ft. of 6" pipe, ledge work, etc.	3500.00
Connect dead end on Morton Street to line on Chestnut Street, 1006 ft. of 6" pipe and fittings	2500.00
	<hr/>
	\$9300.00

The Highland Road work is very necessary because in the summer time when there is a large draft at Shawsheen Village or when the water on the low service lines is being used for fire purposes, the Downing property cannot get any water. This change would put the following lines on the high service system: Chestnut Street from Highland Road to Morton Street; Summer Street from Highland Road to Pine Street; Morton Street from Bartlet Street to Chestnut Street and all of Highland Road. This change would increase the pressure at Downing's to 57 lbs, where it is now only 15. It would also increase the pressure along the streets mentioned above where an increase is very much needed. The above work would also do away with a few dead ends, which always detract from an ideal water system, and as the annual cost of blowing off a single dead end is about \$100.00, it is readily seen that the above changes would soon pay for themselves.

SEWER DEPARTMENT

The outfall sewer to the Merrimack River is now functioning and the filter beds have been discarded. Various kinds of soil were encountered laying pipe this distance and although due care was used in the work a few leaks have occurred. Up to this writing, the contractor has repaired these leaks with no expense

to the town. A few changes have been made at the sewer pump house on Riverina Road and this spring the overflow pipe will be carried below the dam which is a very small job. I would recommend for maintenance for 1925, \$5000.00 to be divided as follows:

Salaries and labor	\$2500.00
Miscellaneous	500.00
Power	2000.00
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Total	\$5000.00

This is \$1000.00 less than 1924 because the sinking fund is now such as to take care of itself.

COMMON SEWERS

Three hundred feet of main sewer line were laid on Poor Street this year. This was the only new work and cost the Town \$1035.53 with no assessments.

The outfall sewer expenditures up to January 1, 1925, cost the Town \$233,887.47; of this amount the Town spent \$191,074.03 and the City of Lawrence \$42,813.44. We now have on hand a balance of

\$12732.14 cash
2000.00 stock and material

\$14732.14

Town appropriated	\$150000.00
American Woolen Co.	50000.00
City of Lawrence	42813.44
Credits	3806.17
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Total	\$246619.61
Expenditures	233887.47
	<hr/>
Balance	\$12732.14

EXPENDITURES

NAMES	WATER DEPARTMENT				SEWER DEPARTMENT						
	Mainte- nance	Service Pipe	Pipe Dis- tribution	North Street	Total	Mainte- nance	HouseCon- nections	Outfall Sewer	Article 9 and 10	Total	Grand Totals
Pay Rolls	\$14156.71	\$4282.26	\$40.00	\$6238.98	\$24717.95	\$2153.19	\$1996.48	200.00	\$614.84	\$4764.51	\$29482.46
Boston & Maine Railroad	16.60	109.59		808.47	934.66		53.63			253.63	1188.29
American Woolen Co.	18.50				18.50	31.75		.96	5341.00	5373.71	5392.21
C. A. Hill	194.48				194.48	11.23		24.38		35.61	230.09
Curry Bros.	242.28	5.09		49.26	296.63	32.95	48.00			80.95	377.58
American Express	4.75	15.97			20.72			8.56		8.56	29.28
John Shea		89.20			89.20						239.05
Andover Press	159.49	.90			160.39	96.15	53.70			149.85	232.89
A. A. Roesch	2.50				2.50	72.50				72.50	232.89
Walter I. Morse	662.48		26.10	78.51	767.09	648.00	13.50			648.00	650.50
William Shorten		119.42			119.42	8.25				21.75	788.84
W. J. Morrissey	46.87	89.25			136.12	162.75				162.75	282.17
N. E. Tel. and Tel.	352.65				352.65	9.50		23.22		9.50	145.62
C. I. Alexander						25.72		17.31		48.94	401.59
Lawrence Gas Co.	6622.20				6622.20	826.80				826.80	7449.00
Lawrence Machine Co.	3132.75	1325.00	2557.52		7015.27	26.80				26.80	7042.07
Frank L. Holt						1500.00				1500.00	1500.00
Lyle Bros.	80.10	48.93			129.03	17.06				17.06	146.09
Anderson & Bowman			50.50	132.45	182.95	92.05				92.05	275.00
Smart & Flagg	3.00				3.00	20.00				20.00	23.00
Frost & Adams						78.00				78.00	78.00
Spaulding Moss Co.						21.58				21.58	21.58
J. H. Campion						2.00				2.00	2.00
F. L. Cole, rubber boots						15.00				15.00	15.00
Richard Abbott						118.12				118.12	118.12
Portland Stoneware Co.							687.13		100.45	787.58	787.58
Wm. H. Welch & Co.		6.17			6.17		5.40			5.40	11.57
Frank E. Dodge							4.50			4.50	4.50

NAME	WATER DEPARTMENT				SEWER DEPARTMENT						
	Mainte- nance	Service Pipe	Pipe Dis- tribution	North Street	Total	Mainte- nance	HouseCon- nections	Outfall Sewer	Article 9 and 10	Total	Grand Totals
P. L. Hardy	2094.59		57.35	64.72	2216.66		31.74	3070.73	114.00	3216.47	5433.13
Ed. P. Hall							4.50			4.50	4.50
C. J. McCarty							17.90			17.90	17.90
E. Hethrington							3.60			3.60	3.60
Weston & Sampson								8466.05		8466.05	8466.05
Luke Collins								80.00		80.00	80.00
Cenedella & Co.								35601.40		35601.40	35601.40
Weston Water Roofing Co.								45.00		45.00	45.00
Gray & Kendall	.50				.50			8.20		8.20	8.70
Henry Miller	17.00				17.00			5.50		5.50	22.50
Chapman Valve Co.		89.48			89.48			103.74		103.74	193.22
Daniel P. Webster								125.00		125.00	125.00
City of Lowell								153.10		153.10	153.10
N. E. Appliance Co.								178.04		178.04	178.04
Starkweather & Broadhurst								53.70		53.70	53.70
Bride Grimes	2.64	31.65		365.78	400.07			50.88		50.88	450.95
Frank Welch								18.84		18.84	18.84
C. M. White Iron Works								345.00		345.00	450.00
House Connections, Sewer Dept.									105.00	105.00	450.00
Renssalaer Valve Co.		1.46	245.73	1084.60	1331.79				101.24	101.24	1331.79
Builders Iron Foundry			95.20	190.40	370.19						370.19
National Lead			168.30	846.64	1014.94						1014.94
Water Works Equipment			435.15		1508.11						1508.11
J. F. McDonough	171.05	901.91			719.64						719.64
City of Lawrence	102.06			617.58	719.64						719.64
Water Department	16.00			69.63	85.63						85.63
U. S. C. I. Pipe Co, water pipe				763.81	763.81						763.81
Fred A. Houdlette, water pipe				7062.78	7062.78						7062.78
E. W. Topping, dynamite and blasting				923.52	923.52						923.52
Atlantic Steel Co.				45.82	45.82						45.82
				76.33	76.33						76.33

Ludlow Valve	.	.	.	.	.	49.72
Car Fares	.	.	.	.	.	356.58
George A. Caldwell	.	.	.	.	.	37.11
Thompson Meter Co.	.	.	.	.	.	825.27
Pittsburgh Meter Co.	.	.	.	.	.	412.29
Gamon Meter Co.	.	.	.	.	.	107.90
Neptune Meter Co.	.	.	.	.	.	604.11
Buchan & McNally	.	.	.	.	.	167.35
Cross Coal Co.	.	.	.	.	.	2397.11
M. J. Doyle, express	.	.	.	.	.	25.37
Walworth Mfg. Co.	.	.	.	.	.	84.21
Chadwick Lead	.	.	.	.	.	42.07
Muller Mfg. Co., brass goods	.	.	.	.	.	1484.03
Lead Lined Iron Pipe Co.	.	.	.	.	.	2799.29
M. T. Walsh Co.	.	.	.	.	.	.24
S. T. Shattuck and Son	.	.	.	.	.	1.00
Vacuum Oil Co.	.	.	.	.	.	630.54
Holden Bros.	.	.	.	.	.	97.00
Anglo Saxon Co.	.	.	.	.	.	100.08
Am. City Magazine	.	.	.	.	.	2.00
Andover Battery Station	.	.	.	.	.	75.95
Merrimac Boiler Works	.	.	.	.	.	183.50
A. M. Colby	.	.	.	.	.	6.00
Terry Press	.	.	.	.	.	51.00
National Meter Co.	.	.	.	.	.	96.21
Yawman & Erbe, steel cabinet	.	.	.	.	.	26.00
Charles E. Torrey	.	.	.	.	.	7.83
George H. Snell	.	.	.	.	.	37.10
Arthur O'Hara	.	.	.	.	.	300.00
Dr. P. J. Look	.	.	.	.	.	14.00
Burrows Adding Machine Co.	.	.	.	.	.	171.50
Andover Coal Co.	.	.	.	.	.	146.66
Barret Mfg. Co.	.	.	.	.	.	8.62
Trustees Phillips Academy, hay	.	.	.	.	.	138.45
Edna B. Blackmer	.	.	.	.	.	35.00

NAMES	WATER DEPARTMENT					SEWER DEPARTMENT					
	Mainte- nance	Service Pipe	Pipe Dis- tribution	North Street	Total	Mainte- nance	House Con- nections	Outfall Sewer	Article 9 and 10	Total	Grand Totals
John A. Riley	4.00				4.00						4.00
Atlantic Refining Co.	22.45				22.45						22.45
Smith & Dove	.94				.94						.94
John Brady	463.30				463.30						463.30
Boston & Lawrence Dispatch	1.62				1.62						1.62
A. F. Rivard	2.00				2.00						2.00
A. L. Cole Co.	23.30				23.30						23.30
Fire & Water Magazine	4.00				4.00						4.00
Old Corner Book Store	2.00				2.00						2.00
Main Street Garage	.95				.95						.95
Garlock Packing Co.	35.35				35.35						35.35
	\$33492.17	13839.24	3725.57	19419.28	70476.26	5969.40	2920.08	48579.61	6376.53	63845.62	134321.88

SUMMARY COST OF CONSTRUCTION

WATER DEPARTMENT

DESIGNATION	<i>Approved Bills</i>	<i>Credits</i>	<i>Net Cost</i>	<i>Totals</i>
Office Fixtures				\$571.65
Telemeters				2290.15
Telephones				184.77
Teams				583.65
Pipe Distribution	\$23144.85		\$23144.85	325958.33
Service Pipe	13839.24		13839.24	52467.52
Water and Land				6687.23
Suction Pipe				1309.46
Reservoir				16985.82
Coal Shed				806.97
Grading Land				1739.12
Workshop				1271.88
Building Pumping Station				9610.14
Pumping Plant				47933.54
Construction Expenses				9406.21
Tools	269.91		269.91	4622.76
Maintenance	33222.26		33222.26	
Total	\$70476.26		\$70476.26	\$482419.30

SEWER DEPARTMENT

Sewer Mains	70325 ft.		} Jan. 1, 1925
Cost to Abutters		\$135361.74	
Cost to Town		348496.37	
Totals	70325 ft.	\$483858.11	

Lawrence outfall sewer 14,325 feet, or 2.71 miles.

COMPARATIVE STATISTICS, Approved to Jan. 1, 1925

JANUARY 1, 1925

Year	Received from water rates	Net cost of maintenance	Cost of pumping	Cost per million gal'ns		Received per million gallons	Gallons pumped	No. of service pipes in use	meters in use	No. of h'd'nts	Miles of main pipe
				by total maintenance	by cost of pumping						
1889	Work commenced	.....	.....	.....	.....	.....	6 months	46	.....	16	.....
1890	\$ 3 10 638	2999 99	1776 21	.....	27 97	82 81	24,911,445	309	80	163	20.50
1891	5349 32	3399 93	1806 93	52 85	25 53	68 42	64,595,597	462	122	165	21.50
1892	5977 41	3491 22	2185 83	40 77	23 13	73 46	85,618,190	542	171	174	22.37
1893	7647 95	3792 56	2408 20	36 42	25 13	68 42	104,123,285	601	204	178	23.50
1894	8378 44	4514 47	3354 04	38 31	28 47	71 27	117,847,305	654	237	178	23.53
1895	8434 15	4380 13	3151 33	37 32	26 87	71 81	117,354,950	706	276	180	24.00
1896	9052 31	4627 53	2557 61	37 47	20 71	78 79	123,476,542	752	326	184	24.12
1897	*8011 87	4336 58	2383 71	37 67	20 71	69 61	115,094,527	789	486	184	24.16
1898	7792 40	3662 43	2196 31	32 33	19 38	68 78	113,287,775	819	571	193	24.91
1899	9376 29	4471 04	2656 42	31 21	19 24	65 45	143,260,253	845	616	194	25.12
1900	10668 57	4915 23	3158 50	33 07	21 25	71 78	148,618,935	876	641	196	25.83
1901	*8941 83	7955 34	3430 35	45 44	19 59	51 00	175,062,920	897	670	196	25.84
1902	11805 21	5787 44	3035 47	40 59	25 63	100 01	118,031,451	934	701	205	29.69
1903	11563 79	7389 44	2922 36	55 52	21 96	86 89	133,085,521	958	722	219	30.17
1904	11818 53	6378 96	3004 34	44 25	20 84	81 98	144,164,563	981	757	221	30.49
1905	12409 79	7228 82	3426 98	44 03	20 87	75 60	164,150,879	1013	791	223	30.95
1906	13516 47	8121 39	3054 09	45 39	17 29	76 48	176,717,579	1036	813	224	31.03
1907	17267 86	8112 47	4825 63	33 34	19 94	75 48	242,025,757	1060	848	227	31.35
1908	14908 89	7419 65	3750 29	39 52	19 97	79 41	187,750,372	1101	884	257	35.22
1909	1640 21	7499 95	3967 72	36 96	19 55	81 16	202,885,685	1147	926	273	38.07
1910	17613 66	8378 32	4234 61	36 50	18 50	76 93	228,939,882	1187	977	290	40.81
1911	18515 99	7974 79	3584 62	39 21	17 62	91 03	203,401,371	1245	1023	321	44.34
1912	19687 47	8117 57	3583 45	39 58	17 48	95 99	205,097,460	1304	1081	344	46.99
1913	22739 88	8412 89	4471 18	36 84	19 58	96 58	228,344,927	1353	1146	351	47.70
1914	19614 00	10306 80	4434 65	43 86	18 86	83 47	234,913,550	1405	1195	364	49.64
1915	22451 01	9982 98	4464 45	42 49	18 55	93 32	240,599,178	1465	1262	369	50.08
1916	23496 87	11998 60	4842 20	46 67	21 91	94 02	220,945,880	1492	1290	377	51.19
1917	24780 82	11538 26	5460 42	52 95	25 06	113 72	217,894,123	1503	1311	377	51.19
1918	27053 04	15838 48	10092 80	58 93	37 56	100 67	268,733,008	1570	1328	378	51.19
1919	23864 58	18257 99	7093 30	83 64	37 72	91 46	218,279,797	1521	1370	378	51.19
1920	31416 47	19924 11	9949 64	78 23	39 06	81 08	254,727,887	1594	1460	378	51.19
1921	28013 36	17745 39	9083 83	89 65	41 44	127 80	219,172,467	1557	1562	388	52.44
1922	31831 38	22627 77	8788 98	86 32	33 54	121 46	262,098,700	1800	1745	414	55.15
1923	37718 68	21729 12	10133 57	65 30	30 48	113 47	332,409,160	1950	1856	462	57.84
1924	42284 32	33222 26	15025 88	98 37	44 49	125 21	337,717,247	2044	1929	478	59.47

* Domestic water not shown

HIGHWAYS AND PARKS

To the Board of Public Works:

GENTLEMEN: —

I submit for your approval the twelfth annual report of the Highway Department for the year ending December 31, 1924.

The highway work started as usual with the removal and ploughing of snow. The snowfall for 1924 is as follows: January 18.50 inches, February 15.25 inches, March 7.25 inches, April 6 inches, November 3.5 inches and December .75 inches, making a total of 51.25 fall inches. To take care of this we had a State truck equipped with a plough and three of our own ploughs. With this equipment we did the best possible in keeping the roads fit for travel. It is a State law that the plough furnished by the State open the State highways for travel before it can be used on other streets in town.

In the early spring we started our cleaning up and patching work. The work of patching started March 27th and was continued until the middle of December. This work is increasing each year and must not be neglected, otherwise the roads will not stand the traffic of today. The amount of blanketing material used this year was less than usual, but we kept the roads well patched in places where they showed signs of wearing. We scarified several roads this past year and covered them with a heavy coat of asphalt oil. This seems to work out very well and we hope to do more of this work in the future. The following cinder roads were built during the winters of 1923 and 1924: River Road, Haggett's Pond Road and Bellevue Street. Cinders were also used for bad places on Walnut Avenue, Clark Road, Highland Road, Pine Street, Tucker Street, Argilla Road, Prospect Hill Road and other places where the roads were in poor shape in the spring. In the early spring, Pine Street was unsafe

for travel and 160 cu. yds. of gravel were used on this street to get it into shape.

Many roads were scraped during the year and very good results were obtained. This work was done by Mr. Elmer Conkey. Many old stone culverts have been cleaned out and some have been replaced by metal culverts. This replacing of old stone culverts by metal culverts will have to continue since the heavy trucking is breaking down these old culverts, most of which are in the outlying districts.

In Ballardvale, Mr. Haggerty is still giving the same excellent service that he has in the past. Clark Road has been shaped up with gravel and the culvert there has been replaced. This year many streets in Ballardvale were oiled, which made them retain their shape and also keep the dust down.

A new road was built on Stevens Street from Shawsheen Road to the River Bridge. Curbing was set on one side of the road, 75% of which was paid by the M. T. Stevens Co. This road is Tarvia bound and consists of 3592 sq. yds., curbing, catchbasin and necessary pipe. This job cost \$7429.26 of which \$1368.84 was credit, making the cost to the Town \$6060.42 or about \$1.68 per sq. yd., including all materials. The road work alone cost \$1.47 per sq. yd.

Lowell Street was rebuilt from Poor Street to Canterbury Street. This piece of road was curbed and the American Woolen Co. paid for the curbing and setting of the same in front of their property, which extends the entire length on one side and the greater part of the other. There were 2736 ft. of curbing set, 4970.7 sq. yds. of Warrenite road built, two trees removed and four catchbasins built for the sum of \$14,608.40. This was the cost to the Town for the entire job.

There were 710 sq. yds. of Tarvia bound road built on Central Street from Lupine Road to the River Bridge at a cost of \$1116.50 or \$1.57 per sq. yd. Eight hundred and ninety-five sq. yds. of Tarvia bound road were built at the north end of Wolcott Avenue, at a cost of \$1416.74 or \$1.58 per sq. yd. There were 1995 sq. yds. of Asphalt bound road built on Abbot Street at a cost of \$2544.05 or \$1.28 per sq. yd.

A part of the Main Street sidewalk from Burns's property to Chestnut Street was completed this year. This was done under

a special article and there still remains \$280.65. A granolithic sidewalk was built at the corner of Main and Chestnut Streets around the new K. and D. building; also 328 sq. yds. on Wolcott Avenue. The above constitutes the entire sidewalk work for the year, with the exception of the patching.

I would recommend for Highway maintenance for the year \$45,000.00 to be divided as follows:

Labor, Salaries and Teaming	\$15000.00
Blanketing Streets (Sand)	4000.00
Oiling Streets	1000.00
Sidewalk Work	4000.00
Gravel and Cinders	5000.00
Snow	7000.00
Drains	2000.00
Team and Car	1000.00
Bridges and Fences	2500.00
Catchbasins	500.00
Street Signs	1000.00
Miscellaneous	2000.00

Total	\$45000.00
Recommended for Highway construction 1925	\$20000.00

FINANCIAL STATEMENT

Appropriation March, 1924	\$80000.00
Credits	5564.27

Total	\$85564.27
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Expenditures	
Maintenance	\$32156.41
Construction	41329.08
Snow	9943.34
Sidewalks	132.79
Drains	583.69
Bridges	1232.14
Tools	146.46
Balance	40.36

Total	\$85564.27
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MAIN STREET SIDEWALK (SPECIAL)

Balance January 1, 1924	\$1160.52
Approved Bills (1924)	879.87

Balance	\$280.65
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ROGER'S BROOK

Balance January 1, 1924	\$985.20
Approved Bills (1924)	923.40

Balance	\$61.80
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PARK DEPARTMENT

Appropriation March, 1924	\$1500.00
Approved bills	1477.34

Balance	\$22.66
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PARK AND PLAYSTEAD

ARTICLE NO. 19

Appropriation March, 1924	\$4500.00
Approved bills	4046.96

Balance	\$453.04
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HIGHWAY EXPENDITURES, 1924

NAMES		Maintenance	Construction	Main Street Sidewalk Snow	Sidewalk Drains Bridges Tools	Totals
Pay Roll	.	\$11619.14	\$4242.91	\$8351.93		\$24213.98
Boston & Maine	.	135.91		4.40	29.29	169.60
Good Roads Machine Co.	.	125.15			21.00	146.15
W. I. Morse	.	57.08	12.08		125.46	194.62
William Shorten	.	108.57	28.38	181.49		318.44
Berger Mfg. Co.	.				60.48	60.48
N. E. Metal Culvert	.				359.86	359.86
B. L. McDonald Co.	.				163.35	163.35
W. F. Duffee	.				103.50	103.50
P. L. Hardy	.	547.02	293.31		976.84	1817.17
Elmer Conkey	.				90.00	90.00
C. E. Torrey	.				165.30	165.30
Andover Garage	.					
J. F. McDonough	.	45.73		33.20		78.93
Anderson & Bowman	.	9600.29	5630.13	225.88		15456.30
Waldo Bros. & Bond	.	217.70		42.45		260.15
Joseph Bourdelais	.	17.64		90.00		107.64
American Woolen Co.	.	80.50		255.63		336.13
Louis Cyr, sidewalk special	.			458.46		458.46
Lyle Bros.	.			879.87		879.87
Shorten Bros.	.			69.15		69.15
Charles S. Buchan	.			13.09		13.09
Ralph Parker	.			8.08		8.08
Four Wheel Drive Co.	.			4.14		4.14
W. J. Doherty	.			28.45		28.45
John Haggerty	.			2.50		2.50
Elite Service Station, gas and oil	.			126.38		126.38
John Colbath, old seed	.			9.77		9.77
Treat Hardware	.			20.00		20.00
General Crush Stone Co.	.	336.45	2494.12	18.34		18.34
Edward P. Hall	.	18.00	715.32			2830.57
John Shea	.	228.96	42.20			733.32
Barrett Mfg. Co.	.	3515.61	1734.80			271.16
T. G. Jewett Co.	.	45.00	14783.86			5250.41
						14828.86

HIGHWAY EXPENDITURES, 1924 — Continued

NAMES	Maintenance	Construction	Main Street Sidewalk Snow	Sidewalk Drains Bridges Tools	Totals
Lebanon Machine Co., street signs	\$476.10	\$160.00			\$636.10
Andover Coal Co.	16.36	80.27			96.63
J. E. Pitman Co.	25.00	30.49			55.49
John Franklin		98.00			98.00
O. F. Kress & Son		47.00			47.00
Curry Bros.		52.50			52.50
C. M. White Iron Works		70.80			70.80
H. E. Fletcher Co., curbing		5195.41			5195.41
M. M. McDonough, contract 1923		5000.00			5000.00
Standard Oil Co.		617.50			617.50
Buffalo Pitts Rubber Co., repair parts	64.40				64.40
Alden Spear, road oil	1266.30				1266.30
L. D. Pomeroy	37.00				37.00
C. A. Hill	92.13				92.13
Phoebe Noyes	25.00				25.00
Buchan & McNally	6.82				6.82
John Brady	2983.00				2983.00
Madeleine Hewes	6.50				6.50
Davis Foundry Co.	23.38				23.38
Torrent Mfg. Co.	1.00				1.00
H. A. Prescott	14.15				14.15
Perley Wilson	1.60				1.60
P. J. Hannon	198.96				198.96
Malthrope & Yowman	17.50				17.50
W. C. Crowley	11.25				11.25
A. M. Colby	61.20				61.20
Terry Press	4.00				4.00
Gray & Kendall	58.43				58.43
F. L. Cole, rubber hat and coat	11.00				11.00
W. J. Morrissey	17.50				17.50
Lawrence Gas Co.	6.48				6.48
Salmon Walker, gravel	32.60				32.60
	\$32156.41	41329.08	10823.21	2095.08	86403.78



